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AUTHOR Murphy, Elaine; And Others
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ABSTRACT

This document, designed for students and for teachers and community leaders developing population study programs, is divided into five sections. The first section lists over 80 titles of printed documents for students, teachers, and others. A second section is devoted to bibliographies, directories, and other resource guides on population information. A third section lists materials available from organizations concerned with population issues. A fourth section lists charts, posters, and games. The fifth section describes audiovisual aids dealing with population issues. Information is given with each entry indicating the appropriate education level for the resource (from junior high school through college and adult to advanced levels). Information on availability is provided with each entry. (RE)

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population education: sources and resources

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TO THE EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC) AND USERS OF THE ERIC SYSTEM."

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A publication of the
Population Reference
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WHY STUDY POPULATION? In the past 50 years, world population has doubled and now stands at about 4.3 billion. At current rates, it will double again in 40 years. Most of this growth is occurring in the developing countries, already hard-pressed to provide for their present number of citizens. Many of the more prosperous nations, suffering from serious environmental problems, will add millions more before reaching zero population growth. The causes of such growth patterns and their implications—for agricultural, ecological, political, social and economic systems—form part of the subject matter of population education. Population equilibrium or decrease, population distribution, migration, changes in the age structure of a nation, changes in family patterns, and the interaction of population trends with other important factors are also part of population education.

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POPULATION EDUCATION: SOURCES AND RESOURCES is an annotated list of selected written and audiovisual materials (resources) and helpful organizations (sources) to aid in the study of population and related topics. It is a revision and expansion of the 1975 edition prepared by Judith Seltzer and JoAnn Robinson. The revision was done by Elaine Murphy and Nancy Fitzpatrick as staff members of Zero Population Growth's Population Education Department, and Patricia Cancellier of the Population Reference Bureau, and is published by the Population Reference Bureau as a public service to educators in honor of its 50th anniversary.

We are grateful to Zero Population Growth for its contribution and to Arthur Haupt of the Population Reference Bureau and Clarita Mrena, population education intern at ZPG, for their assistance in preparing the manuscript. We also thank Cecily Harshman and the Washington, D.C. chapter of Zero Population Growth for preparing the section on high school texts, and Helen Lambert for contributions to the audiovisual section. Special thanks to Leila Cabib for the illustrations.

Elaine M. Murphy
Director of Population Education
Population Reference Bureau
May 1979



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Please Note!

- Materials and organizations are listed in alphabetical order by title. Audiovisual aids are listed by length of film or by type (slide/tape versus filmstrip).
- Following most materials is a blue code indicating the grade level for which the material is most suited. Please note, however, that many materials can be modified for use in grade levels other than those suggested. The codes are as follows: E = Elementary, J = Junior High, H = High School, C = College and Adult, + = Advanced.
- Written materials are listed in both "Materials for Students, Teachers and Others" (generally books) and "Materials From Helpful Organizations." Some of the best teaching materials available are listed in the latter section.
- Availability of items and prices are subject to change; materials marked with an asterisk (*) cost \$5.00 or less.
- Unless otherwise noted, materials listed are suitable for many disciplines: social studies, science, math, home economics, and others. They can also provide good subject matter for english and art classes.
- *Sources and Resources* can be easily updated by keeping it in a binder with future issues of *Interchange*, the Population Education Newsletter. Each issue of *Interchange* has a "New Materials" column. (See Population Reference Bureau in "Materials From Helpful Organizations" page 12.)
- *Population Education: Sources and Resources* is a representative but not complete listing of materials in this field. The editors invite suggestions for other written and audiovisual materials to be included in a future revision.

Materials for Students, Teachers and Others

AS WE LIVE AND BREATHE: THE CHALLENGE OF OUR ENVIRONMENT (1971). National Geographic Special Publications, 17th & M Sts., N.W., Washington, D.C. 20036. 240 pp.; \$5.75. E+, J, H, C*

Book dealing with the problems of U.S. population growth and distribution, pollution, loss of open space and wildlife. Beautiful photographs and well-written text.

"ASPECTS OF HUMAN POPULATION." *Ontario Naturalist* (March 1977). 1262 Don Mills Rd., Don Mills, Ontario M3B 2W7. Up to 20 copies, \$2.00 each plus 30c postage and handling. More than 20 copies \$1.60 each plus 30c postage and handling. H, C*

Articles on general population dynamics, animal models, terminology and issues, plus a summary of Canadian trends.

ATLAS OF WORLD POPULATION HISTORY (1978) by Colin McEvedy and Richard Jones. Penguin Books, 625 Madison Ave., New York, NY 10022. 368 pp.; \$4.95 paper. H, C*

A reference volume that provides the history of the world's population by continent and country. Well illustrated with maps, graphs and charts.

CANNIBALS AND KINGS: THE ORIGINS OF CULTURES (1977) by Marvin Harris. Random House, Inc., 201 E. 50th Street, New York, NY 10022. 239 pp.; \$10.00. H+, C

Discusses the theory that as the demands of growing populations eventually exceed their resources, cultures undertake increasingly intensive forms of production, until the original resources reach the point of depletion. New technologies are created and the cycle of production, overpopulation, intensification, and depletion begins anew.

"A CHANGING AMERICA" (January 1979) by Conrad Taeuber in *American Demographics*, Vol. 1, No. 1, pp. 9-15. American Demographics, Inc., P.O. Box 68, Ithaca, NY 14850. \$4 for entire issue, inquire about availability of article reprint. H, C*

A good summary of the demographic trends in America. The implications of the Baby Boom, the trend toward small families, and migration patterns are discussed. Excellent graphs and charts.

CURRICULUM INNOVATION THROUGH POPULATION EDUCATION (1978) by J. E. Jayasuriya. Associated Educational Publishers, P.O. Box 603, Colombo, Sri Lanka. 121 pp.; \$6.00. C+

Discusses scope and content of population education as well as problems, issues, methods and research. Recommended reading list included. International focus.

DECIDING HOW TO LIVE ON SPACESHIP EARTH: THE

ETHICS OF ENVIRONMENTAL CONCERN (1975) by Rodney F. Allen, et al. McDougal, Littell and Co., P.O. Box 1667, Evanston, IL 60204. Order #669-8. 133 pp.; 1-9 copies, \$5.15 each; 10 or more copies, \$3.87 each. H, C

Students encounter open-ended problems involving man-land, man-nature relations in the form of case studies. Situations contain a conflict of goals or values for which there is no obvious "right answer;" the goal is to develop a consistent and responsible set of values about "nature." A teacher's manual is included at no charge with the purchase of 25 or more student texts, if requested.

EE REPORT (monthly magazine). Environmental Educators, Inc., 2100 M St., N.W., Washington, D.C. 20009. Subscription \$25.00; student subscription \$12.50 a year. H, C

Grassroots to global coverage of funds, projects, materials, and trends in environmental education. Each issue includes book reviews, resource listings, articles, and an events calendar.

EARTH, OUR CROWDED SPACESHIP (1974) by Isaac Asimov. John Day Co., 666 Fifth Avenue, New York, NY 10019. 160 pp.; \$2.50. J*

Discussion of the problems faced by Earth's inhabitants as population increases and energy sources, food, and land become more scarce. Good photos and charts.

ECOSCIENCE: POPULATION, RESOURCES, ENVIRONMENT (1977) by Paul Ehrlich, et al. W. H. Freeman and Co., 660 Market St., San Francisco, CA 94104. 1051 pp.; \$39.95 cloth, \$19.95 paper. H+, C

A complete reference to the complex issues of population and environment.

THE ENVIRONMENT AND YOU: A HOW AND WHY WONDER BOOK (1973). Grossett & Dunlap, 51 Madison Ave., New York, NY 10010. 79c. E+, J, H*

A low-cost student paperback from a familiar series.

ENVIRONMENTAL EDUCATION ACTIVITIES MANUALS (1975) by William B. Stapp and Dorothy A. Cox. Volume 1: Concerning Spaceship Earth; Volume 2: Lower Elementary Activities; Volume 3: Middle Elementary Activities; Volume 4: Upper Elementary Activities; Volume 5: Junior High Activities; Volume 6: Senior High Activities. Write to Dorothy A. Cox, 32493 Shady Ridge Dr., Farmington Hills, MI 48018. Six volume paperback set for \$10.00. Orders for 10 or more sets at 20% discount. E, J, H

Series of activity books which provide the basic environmental and population education philosophy of spaceship earth.

EPISODES IN SOCIAL INQUIRY (1972-1975) by Sociological Resources for the Social Studies, American Sociological Association. Allyn and Bacon, Inc., Rockleigh, NJ 07647 or Ralston Pk., Belmont, CA 94002. Four episodes are related to population: "Family Size and Society,"

55 pp.; "Migration Within the United States," 51 pp.; "Population Change: A Case Study of Puerto Rico," 54 pp.; and "Roles of Modern Women," 66 pp. 10 copies of each episode, \$8.70. Teacher's guide, \$2.07 for each episode except "Population Change" (\$2.58). J+,H

Each episode is an 8- to 12-day unit for use in sociology, political science, history, and family life courses. Students work with data in the development and testing of hypotheses, and in the process become "enlightened skeptics." See *Population Growth and the Complex Society* (listed later in this section).

EXPLORING NEW ETHICS FOR SURVIVAL: THE VOYAGE OF THE SPACESHIP BEAGLE (1972) by Garrett Hardin. Viking Press, Inc., 625 Madison Ave., New York, NY 10022. \$10.95, cloth. Penguin Books (same address). \$2.75, paper. H+,C*

Science and social issues within the framework of a science fiction parable. Maintains that in order to preserve a quality of life on this planet we must restrict some human freedoms. The fundamental dilemma of the ecological crisis is caused by the political "system of the commons." When too many individuals make too many demands on the common resources, tragic consequences result.

FOOD FIRST: BEYOND THE MYTH OF SCARCITY (1977) by Frances Moore Lappe and Joseph Collins. Houghton Mifflin Co., One Beacon St., Boston, MA 02107. 466 pp.; \$10.95. H+,C

A critical look at food policy which maintains that the world could feed many more people and that rapid population growth is more a result than a cause of hunger and poverty.

"THE FOOD FIRST DEBATE," *Ag. World* (April 1978) by Peter Huessy. The Institute for Food and Development Policy, 2588 Mission, San Francisco, CA 94110. \$1.00. H+,C*

A critique of *Food First* (see above) as well as the authors' response. Huessy maintains that the authors underplay the role of population growth in world hunger; the authors accuse Huessy of overplaying its importance.

"FROM HERE TO 2000: A LOOK AT THE POPULATION PROBLEM" (January 1979) by John F. Kantner in *The Johns Hopkins Medical Journal*, Vol. 144, No. 1, pp 18-24. Request reprint from Dr. Kantner, Dept. of Population Dynamics, Rm. 2509, Johns Hopkins University School of Hygiene and Public Health, Baltimore, MD 21205. C*

A lively account of the history of population programs and a summary of the current debate on strategies for reducing birth rates.

GROWTH IMPLICATIONS AND THE EARTH'S FUTURE, A STUDY OF CURRICULUM MATERIALS AND STUDENT VIEWS. Education Development Center, 55 Chapel St., Newton, MA 02160. 49 pp.; single copies free. C*

A valuable policy tool for environmental educators and curriculum developers.

HUMAN ECOLOGY, PROBLEMS AND SOLUTIONS (1973) by Paul R. Ehrlich, et al. W. H. Freeman and Co., 660 Market St., San Francisco, CA 94104. 304 pp.; \$4.75. C*

Introduction to the study of mankind's relations with the environment. Covers the main elements of the population/food/environmental crisis and stresses need for rapid changes in human attitudes, especially on reproductive behavior, economic growth, technology, the environment, and conflict resolution.

HUMAN GEOGRAPHY: CULTURES, SOCIETY, AND SPACE (1977) by Harm J. de Blij. John Wiley & Sons, Inc., 605 Third Ave., New York, NY 10016. \$18 cloth. H

One of the growing number of geography texts in which population change is an essential factor in human adaptation to ecological niches.

HUMAN POPULATION (1975). Booklet 4 of the *Investigating Your Environment Series by the Biological Sciences Curriculum Study*. Addison-Wesley Publishing Co., South St., Reading, MA 01867. 66 pp.; \$2.92. H,C*

A series of readings in population issues, using reprints of articles by experts in the field.

HUMAN POPULATION: A SCIENTIFIC AMERICAN BOOK (1974). W. H. Freeman & Co., 660 Market St., San Francisco, CA 94104. 147 pp.; \$3.75. H,C*

Reprint of the September 1974 issue of *Scientific American* devoted to population with articles by the most respected authorities in the field. Includes history of population growth, physiology of reproduction, genetics, migration, family, women's status, food, the populations of developing and developed nations, and the transfer of technology to underdeveloped countries.

IMMIGRATION: NATIONALISTIC RACISM, edited by David L. Bender and Gary E. McCuen. Greenhaven Press, 577 Shoreview Park Ave., St. Paul, MN 55112. 98c plus 5% for shipping/handling (minimum order: \$10.00). H,C*

Part of Greenhaven's *Opposing Viewpoints Pamphlets* series on racism. Includes debate on the question of restricting immigration to America from Southern and Eastern Europe and Asia.

THE IMPLEMENTATION OF POPULATION EDUCATION: CURRENT STATUS AND NEEDS OF EDUCATORS (1978) by Elaine Murphy. University Microfilms International, Dissertation Copies, Box 1764, Ann Arbor, MI 48106. 206 pp., \$7.50 Microform; \$15 xerographic. Non-U.S. citizens should inquire about rates. C+

Dissertation which describes the history of population education in the U.S. and the current "state of the art," identifies unfulfilled needs of educators and suggests strategies to meet those needs. Also describes model programs.

INTRODUCTION TO ENVIRONMENTAL SCIENCES by Philip Foster. Learning Systems Co., Richard D. Irwin, Inc., Homewood, IL 60403. \$4.50. H,C*

Materials for Students, Teachers and Others

A programmed self-instructional student workbook on population, pollution, land use and related issues. A lively presentation.

ISSUES IN POPULATION EDUCATION (1976) edited by David Kline & David Harman. Lexington Books, D.C. Health & Co., 125 Spring St., Lexington, MA 02173. 286 pp. \$16.95. C*

Collection of essays on major issues and methods in the field.

THE LIMITS TO GROWTH (1972) by Donella H. Meadows, et al. Universe Books, 381 Park Ave. South, New York, NY 10016. 207 pp.; \$2.75. H+,C*

The well-known Club of Rome study of the complex and interrelated factors that determine and ultimately limit growth on this planet: population, food and industrial production, pollution, and resource use. (See "Audiovisual Aids" for film version.)

LIVING IN THE ENVIRONMENT: CONCEPTS, PROBLEMS AND ALTERNATIVES (1975) edited by T. Miller, Jr. Wadsworth Publishing Company, Order Department, 10 Davis Dr., Belmont, CA 94002. \$14.95. H+,C

A dynamic college text on the environment, dealing with population, land use, and ecology, with recommendations for problem solving. Includes "outside readings" in the text. Intended for undergraduates, a high school ecology class would also find this an excellent resource.

THE LOCAL COMMUNITY: A HANDBOOK FOR TEACHERS (1971) by the High School Geography Project. MacMillan, Front and Brown Sts., Riverside, NJ 08075. \$9.36 each (1-2 copies); \$8.32 each (3 or more copies). H

Handbook demonstrating how to work with current, local population data. Various U.S. Bureau of Census materials are suggested for use in classrooms.

MANKIND AT THE TURNING POINT (1976) by Mihajlo Mesarovic and Eduard Pestel. Reader's Digest Press, 200 Park Ave., New York, NY 10017. 208 pp.; \$1.95. C*

The second (less pessimistic than *Limits to Growth*) report of the Club of Rome suggests economic solutions to problems of population, hunger and poverty.

"MARRIAGE AND FERTILITY IN THE DEVELOPED COUNTRIES" (December 1978) by Charles F. Westoff in *Scientific American*, Vol. 239, No. 6, pp 51-57. Order reprint from W. H. Freeman & Co., 660 Market St., San Francisco, CA 94104. 40c each (minimum order \$5). H+,C*

A good summary of the reactions to the trend toward or achievement of zero population growth in developed countries. Changes in marriage and the family and their implications for future population decline are discussed.

MODELS OF DOOM: A CRITIQUE OF THE LIMITS TO

GRCWTH (1973) by H. S. D. Cole, et al. Universe Books, 381 Park Ave., New York, NY 10016. 244 pp.; \$2.95. C*

Presents a critical analysis of the data, methods, and conclusions of *The Limits to Growth* analysis. Evaluates each of the five basic variables in the model.

MORE: THE INTERFACES BETWEEN POPULATION, ECONOMIC GROWTH AND THE ENVIRONMENT (April, 1972) by the League of Women Voters. 1730 M St., N.W., Washington, D.C. 20036. Order #104. 44 pp.; 75c. H,C*

Statement of factors influencing population change, distribution, and growth and a description of the relationship between economic, environmental, and population factors. Includes a bibliography.

THE NEXT 200 YEARS (1976) by Herman Kahn, et al. William Morrow Co., 105 Madison Ave., New York, NY 10016. \$8.95 cloth; \$4.50 paper. C

A Hudson Institute report which foresees global prosperity, rather than disaster, and a stable population of 15 billion in the year 2176.

OVERVIEW OF DEMOGRAPHIC TRENDS SHAPING THE NATIONS FUTURE (May 1978) by Peter A. Morrison. Rand Paper P-6128. The Rand Corporation, 1700 Main St., Santa Monica, CA 90406. \$3 prepaid. H+,C*

Peter Morrison's testimony before the Joint Economic Committee of the U.S. Congress on present and future population trends in the U.S. Discusses the implications of the trend toward zero population growth, migration trends, and the increase in two-paycheck families.

PEOPLE COUNT (1976) by Val E. Arnsdorf. Order information: The Director, Center for International Programs and Comparative Studies, State Education Dept., University of the State of New York, 99 Washington Ave., Albany, NY 12230. J

A study unit on the many aspects of population in India and the world. Includes charts and graphs suitable for reproduction or overhead projection.

POPULATION (1979), Data Track 5. American Council of Life Insurance, Social Research Services, 1850 K St., N.W., Washington, D.C. 20006. 40 pp.; free while supplies last. J+,H,C*

Provides a clear description of major trends in population growth and distribution in this country and in the world. Excellent and plentiful charts and graphs.

POPULATION (1970) by Robert Lowenherz. Creative Educational Society, Inc., 123 South Broad St., Mankato, MN 56001. 120 pp.; \$7.50. E,J

Clear, simple and comprehensive text on the characteristics of population change and why rapid growth presents a variety of social, environmental, and individual problems. Profusely illustrated with photographs and drawings. Infor-

mation at the end includes sections on definitions of terms and how to read tables.

POPULATION (1971) by Valerie Oppenheimer. **Headline Series No. 206**, Foreign Policy Association, 345 East 45th St., New York, NY 10017. 95 pp.; \$1.00. H*

Considers the problems of rapid population growth in an urgent but "noncrisis" manner, touching on industrialized as well as developing nations. One section offers a variety of alternatives for reducing growth.

POPULATION (1975) by William Petersen. MacMillan, Inc. 844 3rd Ave., New York, NY 10022. 751 pp.; \$15.95. H.C

Comprehensive, well-known textbook. Begins with criteria for population analysis. Differentiates the population structure of various societies, following a historical development from primitive to modern times, including Third World populations and the population of totalitarian societies.

POPULATION: A CLASH OF PROPHETS (1973) edited by Edward Pohlman. New American Library, Inc., 1301 Avenue of the Americas, New York, NY 10009. 490 pp.; \$1.95. H.C*

Collection of essays by Western social scientists. Offers a cross-section of opinion on demographic problems of the 1930's and 1970's, population dynamics of the developed and developing worlds, the economic and political impact of accelerated population growth on the environment and food production, and minority viewpoints on fertility.

POPULATION AND SOCIAL CHANGE: A CURRICULUM GUIDE FOR HIGH SCHOOL TEACHERS (1974) by Mark Cohen and Neil Gustafson. Upper Midwest Council, Federal Reserve Bank Building, Minneapolis, MN 55480. 150 pp.; \$5.00. H.C*

Teaching guide accompanying two regional population studies: "Recent Trends/Future Prospects: A Look at Upper Midwest Population Changes" and "Population Mobility in the Upper Midwest." These present analyses of the population composition, distribution, migration and mobility, residential patterns, and socioeconomic characteristics for six states.

"THE POPULATION CONTROVERSY" (1973) by Bender and McCuen. Greenhaven Press, Inc., 577 Shoreview Park Ave., St. Paul, MN 55112. 22 pp.; 98¢ plus 5% for shipping/handling (minimum order: \$10.00). H*

Pamphlet that gives various viewpoints (e.g. Paul Ehrlich, Ben Wattenberg and Pope Paul IV) and asks students to decide for themselves.

POPULATION CRISIS: AN INTERDISCIPLINARY PERSPECTIVE (1972) edited by Sue Titus Reid and David L. Lyon. Scott Foresman & Co., 1900 East Lake Ave., Glenview, IL 60025. 211 pp.; \$4.95. C*

Thirty-three essays on the population problem, its impact on society and the environment, and solutions. Opposing points of view are presented.

POPULATION EDUCATION: A KNOWLEDGE BASE (1979) by Willard J. Jacobson. Teachers College Press, 1234 Amsterdam Ave., New York, NY 10027. 228 pp.; \$12.95. J

An excellent text designed to give middle and junior high school teachers a knowledge base about the many facets of population. Includes exercises and discussions to stimulate student interest.

POPULATION EDUCATION TASK CARDS (1975). Dolphin Enterprises, 1207 N.E. 103rd St. Seattle, WA 98125. \$3.50. J.H*

23 detailed science lesson plans to be used sequentially or individually. Clear recipe-like instructions for short and long term experiments.

POPULATION: EXPERIMENTS IN ECOLOGY (1973) by A. Harris Stone and Stephen Collins. Franklin Watts, Inc., 730 Fifth Ave., New York, NY 10019. 88 pp.; \$5.88. E + J

Simple problems and experiments demonstrating the causes of population growth and decline among plants, animals, and humans, the means of predicting population trends, and the effects of overpopulation on the environment.



POPULATION GROWTH AND THE COMPLEX SOCIETY (1972) edited by Helen MacGill Hughes. Sociological Resources for the Social Studies. Allyn and Bacon, Inc., Rockleigh, NJ 07647 or Ralston Park, Belmont, CA 94002. 211 pp.; \$1.68. H*

Adaptations of nineteen articles by social scientists on the complex relationship between population size, distribution and composition, and our rapidly changing society. The reader must deduce many of the relationships, but is helped with a series of questions for each article. See *Episodes in Social Inquiry*.

POPULATION GROWTH IN THE UNITED STATES AND MEXICO: A GEOGRAPHIC ANALYSIS (1972) by John Dale and Marion Rice. M. J. Rice, Geography Curriculum Project, 107 Dudley Hall, University of Georgia, Athens, Georgia 30602. One text and response booklet, \$12.50 (orders exceeding 25 copies discounted 10%). E + J*

Focuses on population dynamics in a comparative study and introduces students to demographic and population concepts relating to distribution, density, movement, and change. The self-study unit utilizes a Forced Inferential Response Mode (FIRM) in which students construct their own narratives using data provided in maps, charts and graphs.

Materials for Students, Teachers and Others

POPULATION INFORMATION KIT (1978) by Employment and Immigration Canada. Available from Printing and Publishing, Supply and Services Canada, Hull Que., Canada K1A 0S9. 21 pp. plus 30 charts. Canada: \$2.95; other countries, \$3.55. H,C*

Data on the entire range of current population issues in Canada clearly and interestingly presented in charts with explanatory essays. Accompanying booklet includes definitions of demographic terms and audiovisual aids of general interest, as well as an annotated bibliography. Available in English and French.

POPULATION INQUIRIES: U.S. & WORLD DYNAMICS, Vol. I & Vol. II (1973) by the Population Education Project, Indiana University. Xerox copies available from Jerry L. Brown, 2511 Deep Well Ct., Route 3, Bloomington, IN 47401. Vol. I, 196 pp., \$10 (includes postage). Vol. II, 194 pp.; \$10 (includes postage). H

Excellent instructional unit on population issues. Contains visually stimulating activity-oriented instruction. Vol. I contains lesson plans to accompany film strips: "Systems Man" and "Rural India: May You Have A Thousand Sons" (see "Audiovisual Aids"). Vol. II contains "Population Grab-bag," a teacher idea resource for population education.

"POPULATION PROBLEMS," *Eco-News: An Environmental Newsletter for Young People*, Vol. 7, #2; November 1976. Environmental Action Coalition, 156 Fifth Ave., New York, NY 10010. 8 pp.; single copies free with self-addressed, stamped envelope; multiple copies, 5¢ each. E*

An 8-page pamphlet with charming illustrations dealing with population.

POPULATION: QUANTITY VS. QUALITY (1972) by Shirley Hartley. Prentice-Hall, Inc., Englewood Cliffs, NJ 07632. 343 pp.; \$7.95. C

Comprehensive discussion of the issues of population growth in relation to resources and the environment with a policy orientation; limited presentation of demographic processes, basic measures, and population composition.

POPULATION STABILIZATION IN THE UNITED STATES: A TEACHING CASE STUDY (1975) by Deborah Oakley. Center for Population Planning, School of Public Health, University of Michigan, Ann Arbor, MI 48109. \$2.00, paperback. H+,C*

Background information for student activities and role-playing of policymakers.

POPULATION: THE DYNAMICS OF DEMOGRAPHIC CHANGE (1976) by Charles B. Nam and Susan O. Gustavus. Houghton Mifflin Co., 6626 Oakbrook Blvd., Dallas, TX 75235; or from Houghton Mifflin Co., Pennington-Hopewell Rd., Hopewell, NJ 08525. 363 pp.; \$11.95. H+,C

An introductory college text for use in a variety of disciplines; clear explanations of the determinants and results of demographic change.

POPULATION TODAY (1979) by Eric McGraw. Kaye & Ward

Ltd., 21 New St., London EC2M 4NT, England. £3.25 cloth. J+,H,C*

Provides a comprehensive coverage of the causes of rapid population growth in the world and stresses the need to do something about it. Well illustrated with charts and photographs.

POPULATION '78 (1978). New Internationalist Publications Ltd., 62A High Street, Wallingford, Oxon. OX10 0EE, United Kingdom. \$2.00. H,C*

An up-to-date kit of materials on world population and development. Includes wall charts, cartoons, a summary of facts and trends in population growth and a discussion of the population/development debate. While its introduction refutes simplistic interpretations of population problems, the kit provides balanced information on the important role of population trends in development issues.

PSYCHE AND DEMOS (1977) by Warren B. Miller and R. Kenneth Godwin. Oxford University Press, 200 Madison Ave., New York, NY 10016. \$12.00 cloth, \$5.00 paper. C+*

A clear analysis of the interaction of individual psychology and population variables, along with policy implications.

THE REAL AMERICA: A SURPRISING EXAMINATION OF THE STATE OF THE UNION (1974) by Ben Wattenberg. Doubleday & Co., Inc., 245 Park Ave., New York, NY 10017. \$10.00, cloth. Or Putnam's, 200 Madison Ave., New York, NY 10016. \$3.50, paper. C

Takes the view that population growth is no problem and that things in general are getting better and better in the U.S.

REPORTS FROM THE SELECT COMMITTEE ON POPULATION (1978). Request copies from: Hon. James H. Scheuer, U.S. House of Representatives, Washington, D.C. 20515. Free but very limited supplies. H+,C*

Six separate reports based on the testimony of experts: World Population: Myths and Realities; Fertility and Contraception in the U.S.; Legal and Illegal Immigration to the U.S.; Population and Development Assistance; Domestic Consequences of U.S. Population Change; and Final Report and Recommendations.

SIX BILLION PEOPLE: DEMOGRAPHIC DILEMMAS AND WORLD POLITICS (1978) by Georges Tapiros and Phyllis Plotrow. McGraw-Hill Book Co., 1221 Avenue of the Americas, New York, NY 10036. 218 pp.; \$5.95. C

One of the volumes of the Council on Foreign Relations' 1980's project. Notes that virtually every aspect of international relations will be affected by the explosive growth of world population 1970-1990 and that international migration will be a major issue.

SOCIAL ISSUES RESOURCES SERIES: POPULATION. SIRS, P.O. Box 2507, Boca Raton, FL 33432. Volume 1-\$50.00, Volume 2, \$30.00; additional supplements \$10.00. H,C

A continually updated volume of 100+ articles on population drawn from many sources. Readily photocopied.

A STRUCTURE FOR POPULATION EDUCATION (revised 1978) by Mary Turner Lane and Ralph Wileman. Population Publications, 401 University Square, Chapel Hill, NC 27514. 115 pp.; \$4.00. C*

Focuses on the need for structure in population education and on questions of definition and content. Suggestions for planning and teaching courses; includes a list of teacher/student resources.

TEACHING POPULATION CONCEPTS (revised 1977). Dolphin Enterprises, 1207 N.E. 103rd St., Seattle, WA 98125. 60 pp.; \$2.95. E, J*

A teaching manual containing background information and lesson plans. Note that a "typo" makes population over 40 billion instead of the correct 4.0 billion.

TEACHING THE FUTURE: A GUIDE TO FUTURE-ORIENTED EDUCATION (1975) by Draper L. Kauffman, Jr. ETC Publications, Drawer 1627-A, Palm Springs, CA 92262. 298 pp.; \$12.95 cloth, \$7.95 paper. H, C

A practical guide for teachers interested in introducing their students to future studies. Good classroom exercises and extensive bibliography.

THE TWENTY-NINTH DAY (1978) by Lester Brown. W. W. Norton & Co., 550 Fifth Ave., New York, NY 10036. 363 pp.; \$3.95 paperback. H+, C*

Excellent analysis of environmental, food, population, and other trends, suggesting that we have little time to solve major problems.

THE UNFINISHED AGENDA: THE CITIZEN'S POLICY GUIDE TO ENVIRONMENTAL ISSUES, (1977) edited by Gerald O. Barney. Thomas Y. Crowell Co., 666 Fifth Ave., New York, NY 10019. 184 pp.; \$3.95 paper. H+, C*

Recommendations of environmental leaders for policy directions in population, food, energy, natural resources, pollution, genetic research and land use.

THE UNITED STATES AND THE THIRD WORLD (1976) by R. S. Smith. U.S. Government Printing Office, Washington, D.C. 20402. Stock No. 044-000-01617-6. \$1.05, paperback. H+, C*

A thoughtful discussion of global issues of development, population, environment, food aid, energy, and economics.

"WORLD POPULATION: THE SILENT EXPLOSION," *Department of State Bulletin* (Fall 1978) by Ambassador Marshall Green and Robert A. Fearey. U.S. Government Printing Office, Washington, D.C. 20402. Stock #044-000-01714-5. 32 pp.; \$1.40, paperback. While supplies last, free from Dept. of State, Coordinator of Population Affairs, OES/CP Rm 7815, Washington, D.C. 20520. H+, C*

A good summary of the current issues of the population problem in developed and less developed nations, with suggestions for possible solutions.

YOU, ME AND A FEW BILLION MORE (1979) by Jessma Blockwick. Abingdon Press, 201 Eighth Ave. S, Nashville, TN 37202. 128 pp.; \$3.95, paperback. H+, C*

A down-to-earth overview of the current world population situation with a Christian perspective on the moral dilemmas involved. Author directs the Department of Population of the United Methodist Church's Board of Church and Society.

High School Texts Rated For Their Population Coverage

The following textbooks are arranged by subject and ranked according to the quality of their coverage of population issues in the context of their academic areas. Thoroughness, clarity and quantity of material were considered. Population experts, classroom teachers and curriculum developers in various subjects contributed to this ranking.

Four stars (****) means excellent population coverage. Population coverage is graded independent of any coverage of family planning, unless noted. All texts are for high school students, unless noted. Write publishers for prices and review copies.

American Government

AMERICA: ITS PEOPLE AND VALUES (1975) by Wood, Gabriel and Biller. Harcourt Brace Jovanovich, Inc., 757 Third Ave., New York, NY 10017. ****

First rate presentation of major concepts. Population in separate sections as well as integrated throughout text. Good exercises and chapter review. Teacher may wish to supplement with maps, tables and graphs. For junior high level.

MAGRUDER'S AMERICAN GOVERNMENT (1977) revised by McClenaghan. Allyn and Bacon, Inc., 470 Atlantic Ave., Boston, MA 02210. ***

Population not major theme, but well integrated. Scattered nature of population material hinders comprehensive understanding.

Biology

BIOLOGICAL SCIENCE: AN ECOLOGICAL APPROACH (Green Version) (1978). Biological Sciences Curriculum Study. Rand McNally & Co., P.O. Box 7600, Chicago, IL 60680. ****

Good presentation of population problems. Extensive range of issues dealt with, some thoroughly. Includes family planning section.

BIOLOGICAL SCIENCE: AN INQUIRY INTO LIFE (Yellow Version) (1973) by the Biological Sciences Curriculum Study. Harcourt Brace Jovanovich, 757 Third Ave., New York, NY 10017. ***

10 Several thorough, thought-provoking sections on population.

BIOLOGICAL SCIENCE: MOLECULES TO MAN (Blue Version) (1976) by the Biological Sciences Curriculum Study. Houghton Mifflin Co., 2 Park St., Boston, MA 02107. ★★ ★★

A high school biology text which focuses on human population growth as a biological problem to be analyzed by students.

BIOLOGY (1977) by Smallwood and Green. Silver Burdett Co., Division of General Learning Co., 250 James St., Morristown, NJ 07960. ★

Population takes low priority.

BIOLOGY: AN INQUIRY INTO THE NATURE OF LIFE (1977) by Weinberg and Kalish. Allyn and Bacon, Inc., 470 Atlantic Ave., Boston, MA 02210. ★

An insufficient chapter on population at end of text.

BIOLOGY: LIVING SYSTEMS (1976) by Oram, Hummer and Smoot. Charles E. Merrill Publishing Co., Division of Bell & Howell, 1800 Alum Creek Dr., Columbus, Ohio 43216. ★★ ★

Good amount of well-written material on population. Family planning section omits discussion of reliable contraceptive methods in student text, although it appears in teachers' manual.

MODERN BIOLOGY (1977) by Otto and Towle. Holt, Rinehart and Winston, 383 Madison Ave., New York, NY 10017. ★★

Some coverage of human population but uneven in quality. Weak in ecology and implications of present trends for the future.

Psychology

PSYCHOLOGY FOR YOU (1974) by Gordon. Oxford Book Company, 11 Park Place, New York, NY 10007. ★★ ★★

Interesting, multidimensional coverage of population. Chapters on the psychology of population pressures, sex morality, love, marriage. Q & A section on sexuality.

PSYCHOLOGY: ITS PRINCIPLES AND APPLICATIONS (1974) by Engle and Snellgrove. Harcourt Brace Jovanovich, Inc., 757 Third Ave., New York, NY 10017. ★★

Narrow range of issues concerning overcrowding and behavior briefly covered; deals with overcrowding and rats, not humans.

Sociology

SOCIOLOGY (1972) by Landis. Ginn and Company, 191 Spring St., Lexington, MA 02173. ★★ ★★

Exceptionally thorough, clear and contemporary chapter on population. Family planning included.

World Geography

THIS IS OUR WORLD (1975) by Kimble. Silver Burdett, Co., Division of General Learning Co., 250 James St., Morristown, NJ 07960. ★★ ★★

Junior high level. Excellent coverage. Population central concept in text. Thorough, clear.

WORLD GEOGRAPHY TODAY (1976) by Israel, Johnson and Wood. Holt, Rinehart, and Winston, 383 Madison Ave., New York, NY 10017. ★★

As solution to world hunger, text stresses increased food supply, but neglects reduced population growth.

World History

A GLOBAL HISTORY OF MAN (1974) by Stavrianos et al. Allyn and Bacon, Inc., 470 Atlantic Ave., Boston, MA 02210. ★★ ★★

Population in separate sections as well as integrated throughout text. Exceptionally thorough in demographic developments and their historical impacts.

MEN AND NATIONS: A WORLD HISTORY (1975) by Mazour and Peoples. Harcourt Brace Jovanovich, Inc., 757 Third Ave., New York, NY 10017. ★★ ★

Population in separate sections as well as integrated throughout text. Somewhat sketchy presentation of terms and of present and future population scenarios.

OUR WORLD: INQUIRY AND LEARNING (1975) by Dawson, Tiegs and Adams. Ginn and Co., 191 Spring St., Lexington, MA 02173. ★★ ★

Population integrated by geographic region, sometimes focal issue. Good population maps; student activities and introductions to terms could be strengthened.

Other Population Bibliographies and Directories

APPROACHES TO POPULATION AWARENESS, FAMILY LIFE AND SEX EDUCATION FOR YOUNG PEOPLE: SELECTED RESOURCE MATERIALS. International Planned Parenthood Federation, 18-20 Lower Regent St., London SW1Y 4PW.

This list encompasses teaching, learning and training materials, curricula, project and program information, background and research papers and articles. It illustrates the type and range of materials available for population awareness, family life and sex education.

DIRECTORY OF THE POPULATION-RELATED COMMUNITY OF THE WASHINGTON, D.C. AREA (1978) by Jim Chamberlin and Ann Hammond. Available from the World Population Society/D.C. Chapter, c/o 1650 North 21st Rd.,

No. 1, Arlington, VA 22209. \$1.00.

A helpful description of over 100 population organizations in the Washington area.

HUNGER: THE WORLD FOOD CRISIS (1977) by Kathryn Fowler. National Science Teachers Association, 1742 Connecticut Ave., N.W., Washington, D.C. 20009. 70 pp. \$2.50.

A materials guide which includes separate, annotated reading lists for teacher and student. Also contains guides to available films, curricular materials and a list of the organizations and agencies involved in food and hunger issues.

POPULATION EDUCATION ACCESSIONS LIST (1978) by the Population Education Clearing House, UNESCO Regional Office for Education in Asia and Oceania, C.P.O. Box 1425, Bangkok, Thailand.

An international bibliography of population education materials. Contains teaching materials, knowledge base information and a list of publishers.

POPULATION: THE HUMAN DILEMMA (1977) by Kathryn Fowler. National Science Teachers Association, 1742 Connecticut Ave., N.W., Washington, D.C. 20009. \$3.50.

An extensively annotated materials guide with books for students and teachers, films lists and curriculum materials.

SOURCEBOOK ON POPULATION (1976). Population Reference Bureau, 1337 Connecticut Ave., N.W., Washington, D.C. 20036. \$3.95. Bulk rates available.

A very helpful listing of population materials divided into subtopics (population and health, population policy, etc.); contains over 900 annotated citations for population-related books, monographs, reports, bibliographies, periodicals and organizations.



Materials From Helpful Organizations

More information on helpful organizations can be found in the *Directory of the Population-Related Community of the Washington, D.C. Area*, edited by Jim Chamberlin and Ann Hammond. It is available for \$1.00 from the World Population Society/DC Chapter, c/o 1650 North 21st Road, No. 1, Arlington, VA 22209.

AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE, 1776 Massachusetts Ave., N.W., Washington, D.C. 20036, (202) 462-4463. Catalogues of their extensive materials are available. Some suggested publications are:

Culture and Population Change (1976) edited by I. Tinker, et al. \$3.00. An interesting summary of anthropologic studies which shed light on the current population situation. H+, C+

Population: Dynamics, Ethics, and Policy (1975) edited by P. Reining and I. Tinker. \$12.00, cloth; \$4.50, paper. A collection of classic articles on population, published over the past 10 years in *Science*. H+, C+

AMERICAN HOME ECONOMICS ASSOCIATION, 2010 Massachusetts Ave., N.W., Washington, D.C. 20036, (202) 862-8300. Some suggested publications are:

Family Planning and Population in Home Economics (1977). \$6.00 for members; \$7.25 for nonmembers. Resource and curriculum materials for incorporating family planning and population education into programs, especially for students in developing countries. C

Home Economics and Family Planning: Resource Papers for Curriculum Development (1974). \$5.00. Essays on international population and family planning concerns in clothing, nutrition, food supply, economics, decision-making, and quality living. C+

CENTER FOR GLOBAL PERSPECTIVES, 218 E. 18th St., New York, NY 10003, (212) 475-0850. E.J.H.C.

Concerned with educational development to increase awareness of the global problems of conflict and social change. Its quarterly, *Intercom*, contains well-written teaching units and essays on many topics, including population. \$8.00 per year.

CENTER FOR INFORMATION ON AMERICA, P.O. Box C, Washington, CT 06793, (203) 868-2602. A research and educational organization which publishes the following population series:

Population Profiles by Leon Bouvier and Everett Lee. 50c each; bulk rates available. \$8.00 per set of all seventeen units. Study guide \$1.00. Designed for infusion into social studies classes, each unit presents a population topic in a descriptive essay with illustrations and charts. H, C+

Unit 1—Why Study Population?
Unit 2—The United States Among the Nations

Material from Helpful Organizations

- Unit 3—The Vital Revolution: How Did We Get Where We Are Now?
- Unit 4—The Health of Americans: Trends in Illness and Mortality
- Unit 5—The Bearing of Children
- Unit 6—Endless Movement: America as a Nation of Migrants
- Unit 7—The Desertion of Our Countryside
- Unit 8—Growth and Future of Cities
- Unit 9—The Nation's Minorities
- Unit 10—Black America
- Unit 11—Our Human Resources: The Wealth of the Nation
- Unit 12—Education and Human Capacities
- Unit 13—Population of the Future
- Unit 14—The Development of the United States Census
- Unit 15—Women in American Society: A Historical and Demographic Profile
- Unit 16—The Elderly Population: Its Relationship to Society
- Unit 17—The Family

Vital Issues. 45¢ each; bulk rates are available. A subscription for 10 issues a year is \$4. H,C*

The Stockholm Conference on the Human Environment—December 1972

Which Way Population Growth: Baby Boom or Baby Bust?—January 1973

Protecting the Environment: A Global Problem Calling for an International Approach—January 1974

The World Food Situation: How Serious Is It?—May 1974

Our Dietary Habits: Should They Be Changed?—October 1974

Solid Waste Matter: What to Do About It?—February 1975

Alternative Energy Sources: What Are They? When Can We Use Them?—September 1975

Land Use Controls: What Are the Origins and Objectives of Reform?—December 1975

Food Production and Distribution on Planet Earth: Is a World Policy Needed?—October 1976

The Social Security System: Its Evolution; What Will Its Future Be?—November 1976

The Shorter Work Week: Real or Imaginary?—March 1977

Youth Unemployment: A Critical Problem, How to Respond to It?—May 1977

Energy: How and Where Should We Get It? From Coal, From Nuclear Power? How Do They Compare?—June 1977

Blacks in the Suburbs: Their Number is Rising, But Patterns of Segregation Persist—December 1977

The Impact of Social Change On Children and Young People: What Are Its Effects? What Can Be Done About It?—January 1978

Alaska Land: A National Issue—February 1978

The Suburbanization of Corporate Headquarters: What Are the Trends and Consequences?—April 1978

Grain Reserves: What Are the Initiatives For Them?—June 1978

Child Abuse: What Resources for Meeting the Problem?—October 1978

Illegal Immigration: What Can We Do About It?—December 1978

ENVIRONMENT-POPULATION EDUCATION SERVICES, c/o ACES, 800 Dixwell Ave., New Haven, CT 06511. This community group promotes and aids environmental and population education through the development of curricular materials and teacher workshops. (See also "Audiovisual Aids" for E-P Education Services' slide/tape programs, page 19.)

An Introduction to Population, Environment and Society. A 290-page manual designed to assist teachers in presenting a short unit on population, environment and society. \$6.50. Send to Larry Schaefer at address above. Make checks payable to "E-P Education Services, Inc." J,H

THE ENVIRONMENTAL FUND, 1302 18th Street, N.W., Washington, D.C. 20036, (202) 293-2548. Stresses the urgency of checking population growth. Free occasional

newsletter, "The Other Side," and annual data sheet. H+,C

ERIC (EDUCATIONAL RESOURCES INFORMATION CENTER)/CLEARINGHOUSE FOR SOCIAL STUDIES/SOCIAL SCIENCE EDUCATION, 855 Broadway, Boulder, CO 80302. User Coordinator (303) 492-8434.

The Clearinghouse collects, reviews, abstracts, and indexes current educational materials, including population studies, as they relate to social studies curricula in both primary and secondary grades. Bibliographic and reference services are provided to libraries, organizations, and individuals.

ERIC/SMEAC CENTER FOR SCIENCE, MATHEMATICS, AND ENVIRONMENTAL EDUCATION, 1200 Chambers Road, Columbus, OH 43212, (614) 422-6717.

The Center is engaged in research, education and computer-based information and analysis. It provides bibliographic and reference services to libraries and organizations. Free newsletter published eight times a year. Population education is a separate category; useful aid in literature searches. See page 13 for their directory of state-based environmental education projects.

Population Education Activities for the Classroom (1977) edited by Judith Schultz and Herbert Coon. 183 pp., \$4.00 from above address. Over 100 classroom activities ranging in length from 10 minutes to a one-week unit; over 30 activities for elementary grades. An excellent resource. E,J,H,C*

INSTITUTE OF SOCIETY, ETHICS AND THE LIFE SCIENCES, Hastings Center, 623 Warburton Ave., Hastings-on-Hudson, NY 10706, (914) 478-0500.

The Institute's concerns are the ethical, legal, and social implications of advances in the life sciences. An annual bibliography is published on topics relating to population. A packet of readings and papers on cultural values and population policy is available.

INTERNATIONAL PLANNED PARENTHOOD FEDERATION (IPPF), 105 Madison Ave., New York, NY 10016.

IPPF provides services, training, and mass communication/education related to family planning, demography, and economic and social development. The library of the Western Hemisphere provides bibliographic and reference services to libraries, organizations, and individuals. The quarterly *People* (\$15) is a world digest of developments and debate in the family planning and population fields. Write: IPPF, 18-20 Lower Regent St., London, SW1Y 4PW, England.

LEARNING RESOURCES IN INTERNATIONAL STUDIES, Suite 1231, 60 E. 42nd St., New York, NY 10017, (212) 972-9877. Among the Learning Resources in Population Studies that are available:

Population Workbook: A Series of Learning Exercises in Population for Undergraduates (1974) by Parker Marden. \$2.00. Thirteen exercises which teach the basics of population change and current issues in population study. C*

Teaching Notes on Population (1972-1974) edited by Parker Marden. 50¢ each. Six 40- to 70-page paperback booklets filled with lesson plans, activities and resources for teaching population dynamics on a college level. H,C*

NATIONAL CATHOLIC EDUCATION ASSOCIATION, Suite 350, 1 Dupont Circle, Washington, D.C. 20036, (202) 293-5954.

National Catholic Education Association Population Education Workshop Proceedings. Discusses Catholic curricula in regard to population problems in building a just society, global interdependence, food, and individual responsibility. 62 pp., \$2.75. *

Population Education: A Catholic Response. A free pamphlet designed for Catholic educators that includes a definition of population education and recommended written and audiovisual materials. *

NATIONAL EDUCATION ASSOCIATION, Instruction and Professional Development, 1201 16th Street, N.W., Washington, D.C. 20036, (202) 833-4336.

Environment and Population: A Sourcebook for Teachers (1972) by Kathryn Horsley, et al. Order from NEA Order Dept., Academic Building, West Haven, CT 06516. \$3.75. Sourcebook on population variables in relation to various social and natural pressures. Materials include concept statements, discussion, class activities, references, and audiovisual recommendations. J,H*

Teacher-Designed Population Education. Available upon request, a report of the NEA population education project for public school teachers in Rhode Island. Write to the above address. *

NATIONAL WILDLIFE FEDERATION, 1412 16th St., N.W., Washington, D.C. 20036 (202) 797-6800.

People: An Endangered Species (1979) by Cynthia Green. Single copy free; multiple copies, 10¢ each. J,H*

"**Populations**" (April 1973), *Ranger Rick's Nature Magazine* reprint. Single copies free; additional copies 10¢ each. Colorfully illustrated article dealing with factors which keep animal populations in balance (food, disease, predators) ending with a question about the human population. E+,J*

OVERSEAS DEVELOPMENT COUNCIL, 1717 Massachusetts Ave., N.W., Washington, D.C. 20036, (202) 234-8701. The Council provides information for public discussion of fundamental issues affecting U.S. relations with developing countries.

Focusing on Global Poverty and Development. A 540-page sourcebook with teaching ideas on employment, population and economic improvement. \$12.00.

PLANNED PARENTHOOD FEDERATION OF AMERICA (also **Planned Parenthood-World Population**), 810 Seventh Avenue, New York, NY 10019, (212) 541-7800.

The Information and Education Department distributes pamphlets on population and sex education and other publi-

cations, and reviews audiovisual materials. A new population education project issues a kit on population and family life.

Population Education—Personal Dimensions of Population Change (1978). \$6.50, postpaid. A selection of materials including bibliography, classroom activities, and sample speeches which focus on the impact of population change on the individual and the individual's decision-making role in population dynamics. H,C

Family Planning Perspectives, a quarterly journal, describes national and international population dynamics as well as program developments in family planning. Alan Guttmacher Institute, 515 Madison Ave., New York, NY 10019. \$25.00 per year. C+

POPULATION ASSOCIATION OF AMERICA, P.O. Box 14182, Benjamin Franklin Station, Washington, D.C. 20044, (202) 393-3253.

This scientific, professional organization promotes population research. The Association publishes quarterly *Demography*, *Population Index*, and *PAA Affairs*, which are all available with membership (\$8 for students and \$25 for individuals). Back issues of *Demography* are also available.

Careers in Demography... A Concern With People and What Happens to Them (1974). A free, 16-page booklet which describes the field of demography, gives profiles of three demographers, and provides information on graduate training in demography in the U.S. and Canada. J,H,C*

POPULATION COUNCIL, One Dag Hammarskjöld Plaza, New York, NY 10017.

Research and project oriented, the Council also provides bibliographic and reference services to libraries, organizations, and individuals. Has extensive publications collection as well as periodicals. Send for list.

POPULATION CRISIS COMMITTEE, Suite 550, 1120 19th St., N.W., Washington, D.C. 20036, (202) 659-1833.

Promotes research and mass communication/education in population studies and family planning aimed at controlling population growth. Publications include a twice-yearly *Draper World Population Fund Report* and bimonthly briefing papers on issues of national and international importance in the population field. Free. *

POPULATION INSTITUTE, 110 Maryland Ave., N.E., Washington, D.C. 20002, (202) 544-3300.

The Institute fosters interest in population subjects concentrating on public education and communications. A resource list of their publications is available upon request. Among those listed are:

Biosocial View of Population (1977) by Elaine Murphy. \$1.00. Synthesizes research on crowding and fertility regulation in animals and in early human groups. H+,C*

14 The Population Activist's Handbook (1974) \$5.00. Sections on policy, education, services, action for high school students, and international population issues; offers sugges-

tions on how to express concern about population issues. H+,C*

Population and Human Development: A Course Curriculum Including Lesson Plans, Activities and Bibliography (revised 1977) by Elaine Murphy. \$2.00. Interdisciplinary college course including bibliography, activities, and lesson plans for 15 sessions. H+,C*

Pronatalism: The Myth of Mom and Apple Pie (1974) edited by Ellen Peck and Judith Senderowitz. \$6.00 cloth, \$2.95, paper. Limited quantity. This book of essays insists that it is time we realized that motives for parenthood are individual, not universal, and the decision to procreate must be made in light of one's own needs, preferences, and abilities. H+,C*

POPULATION REFERENCE BUREAU (PRB), 1337 Connecticut Ave., N.W., Washington, D.C. 20036, (202) 785-4664.

The Bureau is dedicated to public education and information on population dynamics. Individual memberships are \$20 per year, \$10 for college teachers and \$5 for high school teachers and students.

Interchange and Teaching Tool. Single sets, \$1.00; two or more, 50¢ each. Free one-year subscription available to educators. A quarterly population education newsletter and accompanying teaching tool with student activities. H,C*

1. **The Cost and Value of American Children** teaching module, September 1977
2. **American Way of Life: A Way of Death?** teaching module, November 1977
3. **Marriage, Divorce and Living Together** teaching module, January 1978
4. **World Population: Growth on the Decline** teaching module, May 1978
5. **Population Density and Mobility in the United States** teaching module, September 1978
6. **The Future and Population: What Will A No-Growth Society Be Like?** teaching module, December 1978
7. **Chart Series on Children** with study guide, February 1979
8. **Population Education: Sources and Resources** with "Ideas for Student Themes on Population," May 1979

Intercom. Sample issue free. Sent to all PRB members. A monthly international population news magazine. Includes book reviews, a demographer's page, world food news and summaries of the environmental impact of population change. Available in English and Spanish. H+,C*

Population Bulletin. Published six times a year. *Population Bulletins* analyze world and national demographic trends and discuss contemporary population-related issues. \$1.50 each; 2 to 49 copies, \$1.25 each. H+,C*

Volume 19

- No. 1 **Nutrition, Development, and Population Growth** (1975) by Alan Berg
- No. 2 **Population and Affluence: Growing Pressures on World Food Resources** (1975) by Lester Brown
- No. 3 **Hawaii: Growing Pains in Paradise** (1975) by Tadd Fisher
- No. 4 **Pakistan: A Demographic Report** (1975) by Shahid Javed Burki
- No. 5 **World Population Projections: Alternative Paths to Zero Growth** (1975) by Jennifer Marks Peck

Volume 30

- No. 1 **Africa and Its Population Growth** (1976) by Leon Bouvier
- No. 2 **Literacy and World Population** (1976) by the World Education staff
- No. 3 **The Elderly in America** (1976) by Leon Bouvier, et al

- No. 4 **Family Size and the Black American** (1976) by PRB staff
- No. 5 **U.S. Population in 2000—Zero Growth or Not?** (1976) by Leon Bouvier

- No. 6 **Catholic Perspectives on Population Issues** (1976) by Francis X. Murphy, C.S.S.R. and Joseph R. Erhart

Volume 31

- No. 1 **Infant Mortality—Progress and Problems** (1976) by Leon F. Bouvier and Jean van der Tak
- No. 2 **Adolescent Pregnancy and Childbearing—Growing Concerns for Americans** (1977) by Wendy H. Baldwin
- No. 3 **Rural Renaissance in America? The Revival of Population Growth in Remote Areas** (1976) by Peter Morrison and Judith Wheeler
- No. 4 **Can Third World Cities Cope?** (1977) by George J. Beier
- No. 5 **Communicating Population and Family Planning** (1977) by Robert P. Worrall

- No. 6 **Fertility Regulation Technology: Status and Prospects** (1977) by Sheldon J. Segal and Olivia Shieffelin Nordberg

Volume 32

- No. 1 **The Value and Cost of Children** (1977) by Thomas J. Espenshade
- No. 2 **Epidemiologic Transition in the U.S.: The Health Factor in Population Change** (1977) by Abdel R. Omran
- No. 3 **Changing Contraceptive Patterns: A Global Perspective** (1977) by Dorothy Nortman
- No. 4 **International Migration: Yesterday, Today and Tomorrow** (1977) by Leon F. Bouvier with Henry Shryock and Harry W. Henderson

- No. 5 **Marrying, Divorcing, and Living Together in the U.S. Today** (Revised 1979) by Paul Glick and Arthur Norton

- No. 6 **Indonesia's Family Planning Story: Success and Challenge** (1977) by Terence H. Hull, Valerie Hull, and Masri Singarimbun

Volume 33

- No. 1 **Boys or Girls? Parents' Preferences and Sex Control** (1978) by Nancy E. Williamson
- No. 2 **Canada's Population: Growth and Dualism** (1978) by Roderic P. Beaujot
- No. 3 **What Will a ZPG Society Be Like?** (1978) by Lincoln H. Day
- No. 4 **Declining World Fertility: Trends, Causes, Implications** (1978) by Amy Ong Tsui and Donald J. Bogue
- No. 5 **Mexico's Population Policy Turnaround** (1978) by John S. Nagel

- No. 6 **World of Children** (1979) by Magda Cordell McHale and John McHale with Guy F. Streatfield

Volume 34

- No. 1 **The Sunning of America: Migration to the Sunbelt** (1979) by Jeanne C. Biggar

Population Handbook (1978) by Arthur Haupt and Thomas Kane. Single copies, \$2.00 each; 2 to 49 copies, \$1.75 each. A quick guide to population dynamics which gives the reader a concentrated, understandable course in the basic statistics, rates, and concepts of demography. H+,C*

PRB Reports. 75¢ each. Occasional publication which covers timely population topics, ongoing research and annual summaries of international population events. H+,C*

Volume 3

- Chronology of Major Population-Related Events in 1976** (1977)
- Population Education in the United States** (1977) by Carl A. Huether and Susan O. Gustavus

- The 'Good Times' Cohort of the '1930's: Sometimes Less Means More (and More Means Less)** (1977) by Carl L. Harter

- Policies and Realities of Delayed Marriage: The Cases of Tunisia, Sri Lanka, Malaysia and Bangladesh** (1977) by C. Stephen Baldwin

- Those Perplexing Fertility Swings: A New Perspective on a 20th Century Puzzle** (1978) by George S. Masnick and Joseph A. McFalls, Jr.

Children in the World (1979) by Magda Cordell McHale and John McHale, with Guy F. Streatfield. 11 1/2" x 8 1/2" chartbook, 72 pp. Write to PRB for copies. Contains over 80 charts and tables with brief accompanying text. Topics covered

are children's health, nutrition, development, housing, education and employment. H+, C*

(See also "Charts, Posters and Games" page 17 for PRB's Chart Series, World's Children Data Sheet, World Population Data Sheet and Food for Thought Simulation.)

SIERRA CLUB, 530 Bush St., San Francisco, CA 94108, (415) 981-8634.

The Sierra Club works to restore the quality of the natural environment and has over 50 chapters across the country. Its population project encourages and coordinates educational programs through materials and a speakers' bureau. Write for information about membership and its population newsletter.

California Population Issues: A Teacher's Resource Guide With Classroom Activities (1977) by Naomi Turner. 112 pp., \$1.75. Available from the Sierra Club. A handbook for teachers which focuses on California's population. Includes fact sheets, project suggestions and a film guide. H, C*

STATE DEPARTMENTS OF EDUCATION AND OTHER STATE-BASED SOURCES:

Every state has an environmental education coordinator who can provide information about materials and projects in environmental education, including population. For example, population is the theme of one of four environmental units produced by the Maryland State Department of Education.

Many states also have environmental education organizations and coalitions which produce materials and/or run workshops. See, for example, the New Jersey State Council for Environmental Education's Computer-Based Resource Units, one of which is on population. A state-by-state description of such programs is available from ERIC/SMEAC, Ohio State University, 1200 Chambers Road, 3rd Fl., Columbus, OH 43212. Ask for **A Directory of Projects and Programs in Environmental Education** (1979); and **Environmental Education 1979: A State-by-State Report**; \$6.50 each.

UNITED METHODIST BOARD OF CHURCH AND SOCIETY, Department of Population, 110 Maryland Ave., N.E., Washington, D.C. 20002, (202) 488-5637.

Food/Population/Development Packet, \$2.00. Contains program suggestions, lists of helpful organizations, references for issues and background articles. (See also "Audiovisual Aids", page 24.) *

UNITED NATIONS. Many UN programs feature population and related issues. Most materials and periodicals, unless otherwise noted, are available through: UNIPUB, Inc., Box 433, Murray Hill Station, New York, NY 10016, (212) 686-4707. Write UNIPUB for its publication list.

UNITED NATIONS EDUCATIONAL, SOCIAL AND CULTURAL ORGANIZATION (UNESCO) 7 place de Fontenoy, 75700 Paris, France.

African Social Studies Programme, P.O. Box 44777, Nairobi,



Kenya. Currently working on an African source book for population education.

Population Education: A Contemporary Concern. \$4.75 from UNIPUB, Inc., Box 433, Murray Hill Station, NY, NY 10016. Addresses a wide range of topics including current theories and controversies, planning, objectives, content, research and in-school and out-of-school programs. Good references at end of each chapter. *

Population Education in Asia: A Source Book 1975. \$38 from UNIPUB, Inc., Box 433, Murray Hill Station, NY, NY 10016. Five excellent paperback volumes which include theory, methods, Asian data, reference tables and charts, and discussion of the various aspects of population related to the quality of life. Well-written.

UNITED NATIONS ENVIRONMENTAL PROGRAMME (UNEP), P.O. Box 30552, Nairobi, Kenya or New York Liaison Office, P.O. Box 20, New York, NY 10017. Issues discussion papers and materials which often include population.

UNITED NATIONS FOOD AND AGRICULTURE ORGANIZATION (FAO), Viale della Terme di Caracalla 00100, Rome, Italy.

Has many publications on food and population including *Billions More to Feed*, an easy-to-read paperback on hunger, population and development. \$3.00 from UNIPUB. For a report on population education in rural development training institutions, write FAO's Economic and Social Policy Department in Rome.

UNITED NATIONS FUND FOR POPULATION ACTIVITIES (UNFPA), 485 Lexington Ave., New York, NY 10017, (212) 754-1234.

UNFPA promotes awareness of the implications of national and international population change and offers multi-lateral technical assistance to developing countries. Available free from the Population Education Unit, same address, are an annotated list of population education projects funded by the UN and a booklet, "Population Education," which describes theory and programs in practice. UNIPUB (see address above) distributes the following:

16 UNFPA Journal: POPULI, a quarterly journal, \$2.50. Excellent human interest articles on population. C*

Materials from Helpful Organizations

UNFPA Newsletter: POPULATION, a free, monthly newsletter which covers activities of the United Nations related to population. C*

Population Profiles. UNFPA's paperbacks on population trends in various countries, \$1.50 each; bulk rates on request. Some of the current titles are: "Population Education," an excellent summary of programs in many countries; "Women, Population and Development;" "Asia: Home of Half the World;" and "Law and Population." Write for complete list of titles. C*

Available from UNFPA (address above):

Population Facts at Hand (1979). \$3.50. A compact box of cards which include population statistics for the world's regions and major countries, a population glossary, national population policies, a history of the UN's involvement in population and a description of the activities of UNFPA. H,C*

UNITED NATIONS INTERNATIONAL LABOR ORGANIZATION (ILO), 1750 New York Ave., N.W., Washington, D.C. 20006, (202) 634-6335.

The Rising Tide: the ILO Looks at the Population Problem (1974). A paperback booklet which presents the basic facts and consequences of the population boom, what can be done about it and how, and what the ILO is doing. Free. J,H*

300,000,000. An amusing comic book which accompanies the film of the same name (see "Audiovisual Aids" page 22). Limited supply; free. Discusses the impact of population on the quality of life, including unemployment. J,H*

UNITED STATES GOVERNMENT. Various U.S. Government agencies offer free or low-cost materials. Write:

AGENCY FOR INTERNATIONAL DEVELOPMENT, 320 21st Street, N.W., Washington, D.C. 20523.

COUNCIL ON ENVIRONMENTAL QUALITY. Issues valuable annual reports. Write to the U.S. Government Printing Office, Washington, D.C. 20402. \$3.50, paper. Stock #041-010-00031-2.

ENVIRONMENTAL PROTECTION AGENCY, 401 M Street, S.W., Washington, D.C. 20460.

An annual authoritative review of the state of the U.S. environment including population trends, pollution, energy, resources and more.

OFFICE OF POPULATION AFFAIRS, Population Education Program, Dept. of Health, Education, and Welfare, 200 Independence Ave., Washington, D.C. 20201.

The primary objective of this program is to create better understanding and support in the Department of Health, Education, and Welfare and appropriate federal agencies for the establishment of population education programs in the nation's elementary and secondary schools, colleges and universities. Send for its free report, *Population Education and*

the Federal Role. State Department, Office of Population, 2201 C Street, N.W., Washington, D.C. 20520.

U.S. BUREAU OF THE CENSUS, Subscriber Service Division, Room 1121, Federal Bldg. 4, Washington, D.C. 20233.

Census Bureau publications provide figures on population density, median family income, and age structure by race and sex. Also provide detailed background information on county and state growth, including figures as population increases or decreases, proportions of growth due to natural increase and net migration, decades of greatest population change, and in some metropolitan areas, percentages of all housing units constructed from 1960-1970.

The Census Bureau also offers personal assistance on demographic questions through its Data User Services Division. For a free list of contact persons by subject matter area, write for "Telephone Contacts for Data Users." Attn: Mathilda Bowman, User Training Branch, Data Users Services Division, Bureau of the Census, Washington, D.C. 20233. (301) 763-5512.

The following Census Bureau materials are available from Census Bureau, Subscriber Service Division, address above. Single copies are less than \$5.00. For specific price information and order blanks, please write.

"**Census Portrait**"—10c; available for each U.S. state.

"**Current Population Reports: Population Estimates and Projections**"—includes estimates of populations by county in each state, as of 1974 (some may be out of print).

"**General Population Characteristics**"—as of 1970 for individual states.

"**Urban Atlases**"—for 27 metropolitan areas.

Materials available from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402:

"**County and City Data Book, 1977**"—Statistics for every state, county, and standard metropolitan statistical area and for over 700 major cities. \$19.50

"**Pocket Data Book: USA 1976**"—by the U.S. Bureau of the Census. Current data on vital statistics, population composition characteristics, social and economic data, and government programs and expenditures presented in readable tabular and graphic form. \$4.00

"**Statistical Abstract of the U.S., 1977**"—Data for the Pocket Data Book are drawn from this more extensive summary of social, economic, and political statistics. \$11.00 cloth; \$8.50 paper.

"**Student's Workbook for the 1970 Census**" is available for 55c. H+,C*

"**U.S.A. Statistics in Brief**"—A brochure which lists each state's land area, population size and rank, per cent change in population through 1970-1975, employment and income figures, etc. The brochure is 35c; mailing charge of \$1.00 for each order. H+,C*

"**We, the Americans**"—1972-1973 series of pamphlets. Short, well-illustrated reports on the 1970 census written for junior and senior-high students. Booklets are "We, the Black Americans," "We, the Americans—Our Homes," and "We, the Women." Other subjects in the series are Spanish-speaking Americans, American Indians, youth, immigrants, jobs, elderly, schooling and income. 50c and up. Write for complete listing and prices. J,H*

URBAN LIFE POPULATION EDUCATION INSTITUTE (ULPEI), 2418 St. Paul St., Baltimore, MD 21218, (301) 396-6627 or 396-6624.

The Institute encourages population studies in the school curriculum. It holds workshops for teachers and develops curriculum aids. Four units with both student and teacher editions were developed by Baltimore City teachers. Each unit is complete with readings, tables, and activities (grades 6-12): *Life Around Me: B-More or Baltimore*; *Interplay: The American Family*; and *Population, Production and Pollution*. For more information, write to the above address. **E+J.H**

WORLD BANK, 1818 H St., N.W., Washington, D.C. 20433.

Send for the *World Bank Catalogue of Publications* for titles of free publications and publications for sale. Contains a listing of materials for sale in "Population and Public Health." Of particular interest are the *World Bank Atlas*, a 32-page book of colorful maps and tables on population and economic trends, the *World Atlas of the Child*, a 40-page book of maps and data on children, the "Population Planning Sector Working Paper," and a reprint of Robert McNamara's excellent speech on population delivered to MIT in late 1977. Inquire about availability of curriculum materials from the World Bank Global Education Project. Contact the Public Information Department. **H+.C***

WORLD EDUCATION, 1414 Avenue of the Americas, New York, NY 10019.

Devoted to international literacy education, particularly for adults in developing countries, World Education focuses on involvement of the learner. Its excellent materials often feature ideas for population or family planning workshops; its journal *Reports Magazine* is \$5 per year. Write for list.

WORLDWATCH INSTITUTE, 1776 Massachusetts Ave., N.W., Washington, D.C. 20036, (202) 452-1999.

Concerned with interdisciplinary analysis of world problems and their solutions, the Institute publishes *Worldwatch Papers*, 20- to 80-page softbound booklets (titles listed below). Single copies are \$2.00 each. Bulk rates available. Order materials from the Population Reference Bureau, Box 35012, Washington, D.C. 20013. A one-year subscription to *Worldwatch* is \$25 and includes the *Worldwatch Papers* and all books published during that calendar year. **H+.C***

1. **The Other Energy Crisis: Firewood** by Erik Eckholm
2. **The Politics and Responsibility of the North American Breadbasket** by Lester Brown
3. **Women in Politics: A Global Review** by Kathleen Newland
4. **Energy: The Case for Conservation** by Denis Hayes
5. **Twenty-two Dimensions of the Population Problem** by Lester Brown, Patricia McGrath, and Bruce Stokes
6. **Nuclear Power: The Fifth Horseman** by Denis Hayes
7. **The Unfinished Assignment: Equal Education for Women** by Patricia McGrath
8. **World Population Trends: Signs of Hope, Signs of Stress** by Lester Brown
9. **The Two Faces of Malnutrition** by Erik Eckholm and Frank Record
10. **Health: The Family Planning Factor** by Erik Eckholm and Kathleen Newland
11. **Energy: The Solar Prospect** by Denis Hayes
12. **Filling the Family Planning Gap** by Bruce Stokes
13. **Spreading Deserts—The Hand of Man** by Erik Eckholm and Lester Brown
14. **Redefining National Security** by Lester Brown
15. **Energy for Development: Third World Options** by Denis Hayes
16. **Women and Population Growth: Choice Beyond Childbearing** by Kathleen Newland
17. **Local Responses to Global Problems: A Key to Meeting Basic Human Needs** by Bruce Stokes

18. **Cutting Tobacco's Toll** by Erik Eckholm
19. **The Solar Energy Timetable** by Denis Hayes
20. **The Global Economic Prospect** by Lester Brown
21. **Soft Technologies, Hard Choices** by Colin Norman
22. **Disappearing Species: The Social Challenge** by Erik Eckholm
23. **Repairs, Reuse, Recycling—First Steps Toward a Sustainable Society** by Denis Hayes
24. **The Worldwide Loss of Cropland** by Lester Brown
25. **Worker Publication-Productivity and the Quality of Work Life** by Bruce Stokes
26. **Planting for the Future: Forestry for Human Needs** by Erik Eckholm
27. **The Costs of Pollution** by Denis Hayes
28. **Global Employment and Economic Justice: The Policy Challenge** by Kathleen Newland

ZERO POPULATION GROWTH (ZPG), 1346 Connecticut Ave., N.W., Washington, D.C. 20036, (202) 785-0100.

ZPG is a national, nonprofit citizens' lobby and educational organization whose goal is to achieve voluntary U.S. and world population stabilization. ZPG's Population Education Program develops materials and presents workshops for teachers, school administrators and community leaders. Membership is \$20 (\$10 for students and teachers). Members receive the *ZPG National Reporter* as well as other ZPG publications. A free listing of all of ZPG's publications is available upon request. Population education materials available (single copies free with stamped, self-addressed envelope except where price noted):

"**Bringing the Real World into the Classroom: The Call for Population Education**," reprint from *Environmental Education Report* (October, 1976). Defines "population education."

"**Census Bureau Gives Hometown Relevance to Population Education**," reprint from the *ZPG National Reporter* (March 1978). A one-page article which discusses the resources available from the Census Bureau.

"**Population and the Environment: Getting the Student Involved**," reprint from *Environmental Education Report* (July/August 1978). Contains two activities, one of which is "Poppo!" or population bingo.

"**Population Can Be Fun and Games**," reprint from *Environmental Education Report* (October 1977). Describes enjoyable classroom activities for population education.

Population Education Leader's Kit (1978 revision). \$4.00 each. Includes a 51-page guide to doing population education teacher training as well as the kit above.

Population Education Resource Kit (1978 revision). \$3.00 each. Designed to acquaint teachers with "pop ed" concepts, materials, includes 27 items in all—introduction, classroom-ready quiz and games, copy of "Twenty-two Dimensions of the Population Problem."

"**To Teach or to Preach?**" reprint from the *ZPG National Reporter* (Dec. 1978). Discusses the "value fair" approach to population education.

"**Teaching About Population**," reprint from *The Biology Teacher* (December 1977). Discusses the teaching of population and its relationship to biologically-based issues.

18 The ZPG Population Education Program: Description and

Materials from Helpful Organizations

Evaluation (1978). \$5.00 each. Based on federally sponsored evaluation, with sample materials.

"ZPG Teaching Teachers ABC's of Pop Ed," reprint from the Population Reference Bureau's *Intercom* (Jan. 1978). A look at the ZPG population education program.

Other ZPG publications of interest (single copies free with self-addressed, stamped envelope, except where noted; bulk rates listed):

Benefits of Zero Population Growth (1977). 4 pp.; 2 to 49 copies, 12¢ each.

The Challenge of Social Security Financing (1978). 4 pp.; 2 to 49 copies, 12¢ each.

International Migration as an Obstacle to Achieving World Stability (1974). Reprinted from *The Ecologist*. 12 pp.; 25¢ each.

The One-Child Family (1976). 4 pp.; 2 to 49 copies, 12¢ each.

A Population Policy Primer: Questions and Answers on Population Policy (1978). 6 pp.; 2 to 49 copies, 15¢ each.

Questions and Answers on U.S. Immigration and Population (1978). 12 pp.; 1 to 9 copies, 50¢ each; 10 to 49 copies, 40¢ each.

U.S. Immigration Law: How It Evolved (1977). 4 pp.; 2 to 49 copies, 8.5¢ each.

U.S. Population Fact Sheet (1978). 2 pp.; 2 to 49 copies, 8.5¢ each.

World Prospects for Z.P.G. (1979). 6 pp.; 2-49 copies, 15¢ each.

Foundations and Other Sources of Funds for Population Projects

Foundations which have supported population education projects: Arca Foundation (Frank Dobyns, Executive Director, 180 E. 85th St., New York, NY 10028); Educational Foundation of America (Richard Hansen, Executive Director, 16250 Ventura Blvd., Encino, CA 91436); Ford Foundation (William Sweeney, Project Specialist, Office of Population, 320 E. 43rd St., New York, NY 10017); Rockefeller Foundation (Dr. Sheldon J. Segal, Vice-President, 1133 Avenue of the Americas, New York, NY 10036); and Sunnen Foundation (Sam Landfather, Executive Director, 7910 Manchester Ave., St. Louis, MO 63143).

An organization called Population Resource Center (622 Third Ave., New York, NY 10017) attempts to put population proposals and interested funders together. They are particularly well-informed about local sources of funding for population education. See *The Foundation Directory* (Columbia University Press, 562 W. 113th St., New York, NY 10025) for a state by state list of foundations, many of which might be interested in population education projects. Consult also the National Endowment for the Humanities (806 15th St., N.W., Washington, D.C. 20506) for the addresses of state affiliates.

The U.S. Office of Environmental Education (OEE) has supported population projects in the past through their grants program which can be applied to community or school population education as long as the requirements of the Environmental Education Act are met. Write for a copy of OEE guidelines and a list of previously funded projects. The usual closing date is mid-January. The address: Office of Environmental Education, 400 Maryland Ave., S.W., Room 2025, Washington, D.C. 20202. (202)

A federal grants and contract program specifically for population education at the elementary and secondary levels may be in operation by late spring of 1980. For information, write: Population Education State and Local Education Programs, Office of Education 400 Maryland Ave., S.W., Room 2083, Washington, D.C. 20202.

Universities

The list below reflects programs which deal with the teaching aspects of population studies. For a complete listing of graduate-level population studies programs consult pages 61-63 in the *Sourcebook on Population* (see "Other Population Bibliographies and Directories" page 9).

FLORIDA STATE UNIVERSITY, Population Studies Program, Departments of Sociology and Social Studies Education, Tallahassee, FL 32306, (904) 644-3263.

The program is involved in training (M.A. and Ph.D. levels), research and teaching in population education, demography, and statistics. Program maintains a library of 25 population films, available without charge to educators in Tallahassee. Also write FSU's Department of Environmental Education for a list of related materials and programs.

HARVARD UNIVERSITY, Department of Population Science, School of Public Health and the Graduate School of Education, Cambridge, MA 02138.

Offers training (at the M.A. and Ed.D. levels), research, evaluation, and teaching in educational planning. Write for materials list.

JOHNS HOPKINS UNIVERSITY, Population Information Program, Hopkins Population Center, 624 No. Broadway, Baltimore, MD 21205, (301) 955-8200.

Publishes *Population Reports*, a regular series of reports on new developments in fertility management, demographic change, and other areas of international population concern. Free copies available to developing countries.

Maintains POPINFORM, the computerized population information system which provides citations and abstracts of journal articles, book chapters, reports, government documents and other population or family planning data.

ST. LAWRENCE UNIVERSITY, Department of Sociology, Canton, NY 13616, (315) 379-6476.

Activities in population education includes developing curriculum materials, primarily for the college level, and summer workshops for students and teachers.

TEACHERS COLLEGE, Columbia University, New York NY 10027, (212) 678-2052.

Offers training (M.A. and Ph.D.), curriculum development, research, courses and workshops on population education. Teachers College is one of the pioneers in the field and deals with both U.S. and developing countries.

UNIVERSITY OF CINCINNATI, Department of Biology, Cincinnati, OH 45221.

The University's activities in population education have included summer institutes for secondary school teachers (1971, 1972, 1973) and a survey of population educators on course content and curriculum materials in U.S. secondary schools (1976).

UNIVERSITY OF DELAWARE, Population-Environment Studies Center, College of Education, Willard Hall Education Building, Newark, DE 19711.

The Center is involved in teacher education and curriculum development for levels K through 12 in a multidisciplinary program of environmental studies.

UNIVERSITY OF FLORIDA, Correspondence Study Department, Division of Continuing Education, Seagle Bldg., Gainesville, FL 32601.

Special Topics: Population Dynamics and Family Planning: An Independent Study Course by Correspondence (1976) by R. Allen and M. Cowart. \$45.00. Examines macrosocial and microsocial aspects of population dynamics and discusses technology and values involved in family planning. University credit available.

UNIVERSITY OF ILLINOIS, Population Dynamics Group, 57 Coordinated Science Laboratory, Urbana, IL 61801, (217) 333-3827.

Provides computer-generated simulations and graphics in the fields of population, food, energy, labor force, migration, economic development, population history, and contraception for over 125 countries. Terminals are often available in high schools and universities for these PLATO programs.

UNIVERSITY OF MICHIGAN, Center for Population Planning, School of Public Health, Ann Arbor, MI 48109, (313) 763-4344.

The Center is involved in training (at the master's and doctoral level), research, and teaching in population planning with some coursework in population education. The department maintains a library of films on family planning and sexuality for distribution in Michigan.

UNIVERSITY OF NORTH CAROLINA, Center for Population and Environmental Education, University Square, Chapel Hill, NC 27514, (919) 933-3731.

The Center is involved in education training with emphasis on the development of curriculum materials in population. A library, containing games, films and other materials is open to educators and community organizations in North Carolina at the Instructional Materials Center. They publish:

More or Less: Education for Future Decisions (teaching modules). Order from: Population Publications, University Square 300 A, Chapel Hill, NC 27514. Among the titles are: Module 1—*Demography* (\$1.25); Module 2—*Reproduction* (\$1.50); Module 3—*Family Life* (\$1.25); Module 4—*Environment* (\$2.00); Module 5—*Economy* (\$1.50); Module 6—*Population Policy* (\$1.75); and Module 7—*The Future* (\$1.50). Discounts for quantity orders of single titles. H+, C*

Charts, Posters and Games



Charts

POPULATION REFERENCE BUREAU CHART SERIES. PRB, 1337 Connecticut Ave., N.W. Washington, D.C. 20036. \$1.50 per set of wall charts; 35¢ per set of notebook-size charts; individual slides of charts, 50¢ each.

A graphic, colorful presentation of topical issues in world population and development trends, printed in both wall size, 17" x 22", and notebook size, 8 1/2" x 11". Explanatory essays are on reverse side of notebook size charts.

Series I (1975)

- No. 1 World Population Growth
- No. 2 World Birth and Death Rates
- No. 3 World Urbanization, 1800-2000
- No. 4 The Development Gap
- No. 5 Age-Sex Population Pyramids
- No. 6 Components of U.S. Population Growth
- No. 7 Distribution of the U.S. Population, 1974
- No. 8 U.S. Immigrants by Region of Origin, 1820-1974

Series II (1976)

- No. 1 World Grain Consumption
- No. 2 World Energy Production and Consumption
- No. 3 Major Causes of Death in the United States
- No. 4 Age Structure of the U.S. Population in the 20th Century
- No. 5 Status of Women in the United States, 1950-1975
- No. 6 U.S. School Enrollment, 1950-2000

Series III (1977)

Charts, Posters and Games

- No. 1 Population Density in 14 Selected Countries
 No. 2 Growth of World Urban Centers
 No. 3 World Infant Mortality Rates, 1975
 No. 4 Migration Trends in the United States, 1970-1976
 No. 5 Changing Contraceptive Practices in the U.S., Married Couples, 1965 and 1975
 No. 6 U.S. Trends in Marriage and Divorce, 1921-1974
Series IV (1978)
 No. 1 Children of the World: Rights and Realities
 No. 2 Children and Population Change
 No. 3 Educating the World's Children
 No. 4 Family Life of American Children: Whatever Happened to Dick and Jane?
 No. 5 Children Bearing Children: Teenage Pregnancy in the U.S.
 No. 6 The Future of the American Child.
 (Series IV notebook size charts are available with study guides. \$1.00 for one chart/study guide unit; two or more, 50¢ each.)

SOCIAL STRATIFICATION IN THE U.S. (1979) by Stephen Rose and Dennis Livingston. Social Graphics, 1120 Riverside Ave., Baltimore, MD 21230. For an individual: wall chart, \$5 each; explanatory booklet, \$2 each; color transparency, \$40 each; shipping/handling fee, \$1. For an institution: wall chart, \$12; booklet, \$3; transparency, \$40. H.C.*

A 35" x 45" multi-colored wall chart which depicts through colorful symbols the income, occupation, wealth, family status and race of the U.S. adult population. Helps students see how their family situation fits into the total U.S. picture.

WORLD POPULATION DATA SHEET. Population Reference Bureau, address above. 50¢ each; 2-49 copies, 35¢ each; 50 or more, 25¢ each.

Annual two-color wall chart (18½" x 24") provides current population data for 162 countries, various regions, and the world; includes birth and death rates, rates of natural increase, population doubling times, projections to the year 2000, infant mortality rates, percent of population under 15 and percent over 64, life expectancies, percent of urban population, and per capita GNP. Widely used as reference source by educators, business leaders, public officials, and the media.

WORLD'S CHILDREN DATA SHEET (1979) by Magda Cordell McHale and John McHale, with Guy F. Streatfeild and Thomas T. Kane. Population Reference Bureau, address above. Write to PRB for copies.

An 18½" x 24" wall chart which provides data on children from the UN, World Bank and U.S. Bureau of the Census for the world, its regions and 150 individual countries. The chart includes statistics on numbers and proportions of children under 15, infant mortality, school enrollment, pupil-teacher ratios and nutrition.

Posters

"CONSIDER THE ALTERNATIVE." Zero Population Growth, Seattle Chapter, 4426 Burke Ave., North, Seattle, WA 98103. \$1.00, single copy; bulk rates available.

Poster is a color photograph of the globe, taken from space, with the caption "Consider the Alternative."

ENVIRONMENTAL PROTECTION AGENCY, 401 M St., S.W., Washington, D.C. 20460. Produces and distributes many low-cost or free posters.

"HOW MAN POLLUTES HIS EARTH." National Geographic, 17th and M Sts., N.W., Washington, D.C. 20036. \$3.00 paper; \$4.00 plastic coated.

A colorful depiction of causes and consequences of pollution on land, at sea, and in the atmosphere. Includes population graph.

SIERRA CLUB, 530 Bush St., San Francisco, CA 94108. Produces and distributes many low-cost posters depicting nature scenes.

UNITED NATIONS FUND FOR POPULATION ACTIVITIES (UNFPA), 485 Lexington Ave., New York, NY 10017. Produces and distributes many free or low-cost posters having to do with population dynamics.

Games

BALDICER. John Knox Press, 341 Ponce de Leon Ave., N.E. Atlanta, GA 30308. \$25.00. H

Simulation game on feeding the world's people, designed to help participants gain understanding of the world's economic interdependence and the problems of food production, population growth, inflation, mechanization, and distribution of world resources. In a period of 1½ to 3 hours, each of the 10 to 20 participants acts as food coordinator for 150 million people, keeping them alive by earning Balanced Diet Certificates.

ECO: AN ISLAND SIMULATION GAME (1975). Dolphin Enterprises, 1207 N.E. 103rd St., Seattle, WA 98125. 95¢. E.H.*

Detailed instructions and aids for game designed to teach basic population concepts; incorporates skills in math, language, and social studies.

EXPLOSION. Interact, P.O. Box 262, Lakeside, CA 92040. \$23.50 for 35 student guides and one teacher's guide. H

Simulation designed to involve students in some effects of various population-related issues on a society. Phase I deals with the societal pressures of population growth; Phase II with resources, consumption and the environment, and Phase III with governmental decision-making on population problems. Deals with the effect of overpopulation.

FACING THE ECOLOGY CRISIS (1977). Greenhaven Press, 577 Shoreview Park Ave., St. Paul, MN 55112. 95¢ each plus 5% for shipping/handling (\$10 minimum on orders). H*

Presents five activities dealing with environmental alternatives, ecological issues and population problems. Game folds out like a map (17" x 22") with simulation activities on both sides. Provides 1 to 2 weeks of activities. For best results, have one copy of game for each student.

FOOD FOR THOUGHT: A POPULATION SIMULATION KIT.
Population Reference Bureau, 1337 Connecticut Ave.,
N.W., Washington, D.C. 20036. \$3.00. J+, C*

Explores the interrelationships among world population, land mass, food supply, and resources. Appropriate for 25 to 100 participants in a large room. The basic game introduces the concept of finite resources unequally distributed among the earth's many peoples. Contains a discussion guide, optional activities section and resource materials as well as the PRB World Population Data Sheet.

GLOBAL FUTURES GAME. Earthrise, P.O. Box 120, Annex
Station, Providence RI 01901. \$5.00. H, C*

Dynamic simulation of population, food, technology, and education and the relative growth rates of each. Groups of players representing eight socioeconomic regions barter for resources in 5-year rounds toward the year 2020. The game can be played by 8 to 48 players in a period of 2 to 3 hours.

STARPOWER (1973). Simile II, P.O. Box 910, Del Mar, CA
92014. \$30.00 a kit for 18 to 25 students. H, C

Deals with the unequal distribution of the world's resources. Individual players have the chance to progress from one economic level to another by acquiring wealth through trade. Appropriate for a session of 1 to 2 hours.

VALUES FOR THE FUTURE (1978). The Antioch Environ-
mental Education Program, c/o Michael Teeley, Environ-
mental Project Director, 800 Highview Dr., Antioch, IL
60002.

Classroom activities and games focusing on ecosystems, population, energy, economics and technology at four levels of difficulty: K-2 (\$3.50); 3-5 (\$4.25); 6-8 (\$5.75); 9-12 (\$6.25).



Audiovisual Aids

The audiovisual aids listed in this guide enjoy considerable popularity among population educators.

How to Use this Listing

1. Low-Cost Audiovisual Libraries

On request each of the libraries in this guide will provide a listing of its holdings and conditions of loan. There are three libraries which loan nationally and without restrictions: Zero Population Growth (ZPG), the Population Reference Bureau (PRB), and the National Association for Foreign Student Affairs (NAFSA).

2. Audiovisual Aids

Each audiovisual entry includes: title, date of production, length, suggested grade level, a brief description, name and address of commercial distributor, purchase and rental price from distributor, and the names of national nonprofit audiovisual libraries holding a copy.

3. Lesson Plan

"Environment and Population Films. Critical Viewing and Thinking" is an outline for classroom discussion of the issues raised by many audiovisual programs in population and the environment.

Tips for Borrowers or Purchasers

- The prices listed are subject to change. Check with distributors for the latest price and availability.
- Most of these audiovisual aids are suitable for use in a variety of disciplines. The annotations will help to determine appropriateness for a given discipline.
- When renting, schedule showing at least two months in advance, although audiovisual aids are sometimes available on shorter notice.
- Note 2nd and 3rd choice of films in case your 1st choice is not available at the date you require a film.
- Insure film when mailing back to the library; please return promptly.

Film Libraries for Population/ Environmental Films

National Libraries

Key

Zero Population Growth
1346 Connecticut Avenue, N.W.
Washington, D.C. 20036
(202) 785-0100

ZPG

Rental Per Film: \$10.00
Geographic Area Served: U.S.

Population Reference Bureau, Inc.
1337 Connecticut Avenue, N.W.
Washington, D.C. 20036
(202) 785-4664

PRB

Rental Per Film: \$5.00
Geographic Area Served: U.S.

National Association for
Foreign Student Affairs
1860—19th Street, N.W.
Washington, D.C. 20009
(202) 462-4811

NAFSA

Rental Per Film: \$5.00
Geographic Area Served: U.S.
Note: NAFSA encourages participation
of foreign students in program.

Other Libraries

E-P Services
c/o ACES
800 Dixwell Avenue
New Haven, CT 06511
(203) 562-9967

Rental Per Film: \$5.00 for members of Environ-
mental Education Center
\$10.00 for non-members
Geographic Area Served: Eastern U.S.

Audiovisual Aids

Florida State University
c/o Prof. Byron Massialas
College of Education
Tallahassee, FL 32306
(904) 644-3263

Rental Per Film: Free
Geographic Area Served: Leon and Gasden
Counties, FL

Indiana University
Audiovisual Center
Bloomington, IN 47401
(812) 337-8087

Rental Per Film: Varies
Geographic Area Served: U.S.

National Audiovisual Center
General Services Administration
Attn: Order Section/RR
Washington, D.C. 20409

Rental Per Film: Varies
Geographic Area Served: U.S.

Planned Parenthood of Iowa
P.O. Box 4557
Des Moines, IA 50306
(515) 280-7000

Rental Per Film: \$ 8.50 for Iowa residents
\$15.00 others
Geographic Area Served: U.S.

Planned Parenthood of Metropolitan Washington
1108 16th Street, N.W.
Washington, D.C. 20036
(202) 347-8500

Rental Per Film: \$5.00
Geographic Area Served: Does not mail films

University of North Carolina
Instructional Media Center
School of Education
012 Peabody Hall
Chapel Hill, NC 27514
(919) 933-3731

Rental Per Film: Free
Geographic Area Served: Cannot mail films.
Available to North Carolina teachers only

Other Sources of Audiovisual Rentals

Audiovisual aids are also often available from local sources such as: universities, public libraries, public school media collections, conservation groups, religious groups, Planned Parenthood and ZPG chapters.

Other Annotated Lists of Recommended Films

Audio-Visual Resources for Population Education and Family Planning: An International Guide for Social Work Educators (1975) by Jacqueline Marx Atkins. International Association of Schools of Social Work, 345 E. 46th Street, NY, NY 10017. \$2.00.

Film Directory compiled by Planned Parenthood Federation of America: Planned Parenthood-World Population, 810 Seventh Avenue, NY, NY 10019; single copies free.

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People Packet and Hunger Packet. National Association for Foreign Student Affairs, 1860 19th Street, N.W., Washington, D.C. 20009; (202) 462-4811; single copies free.

Commercial Firms

Commercial firms which have produced population-related audiovisual aids will provide the interested educator with a detailed catalog. Among the firms most respected for high quality of their materials are:

BFA Education Media, 2211 Michigan Ave., Santa Monica, CA 90404

Center for Humanities, Inc., Two Holland Ave., White Plains, NY 10603

Crystal Productions, Biological Sciences Curriculum Study, 107 Pacific Avenue, Aspen, CO 81611

Doubleday Multimedia, Box C-19518, 1371 Reynolds Ave., Irvine, CA 92713

Encyclopaedia Britannica Education Corporation, 425 N. Michigan Ave., Chicago, IL 60611

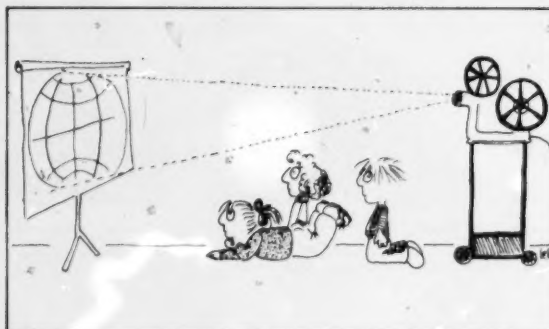
Films Incorporated, 1144 Wilmette Ave., Wilmette, IL 60091

MacMillan Films, 34 MacQueston Parkway South, Mt. Vernon, NY 10550

National Film Board of Canada, P.O. Box 6100, Montreal, 101, Quebec, Canada

Perennial Education, Inc., 1825 Willow Rd., P.O. Box 236, Northfield, IL 60093

Prentice-Hall Media, Inc., ServCode KB, 150 White Plains Rd., Tarrytown, NY 10591



Audiovisual Aids

Films

Short Films (3 to 20 minutes)

BOOMSVILLE (1969), 11 minutes, color. Learning Corporation of America, 711 Fifth Ave., New York, NY 10022, (212) 397-9330. \$170 purchase; \$15 rental from distributor. Film libraries: NAFSA, PRB. E+, J, H, C

Depicts the development of North America from a wilderness to an industrialized society. In the end, humankind reaches another planet and starts the process again.

0 = Zero Population Growth, PRB = Population Reference Bureau, NAFSA = National Association for Foreign Student Affairs. For addresses, see page 19. E = Elementary, J = Junior High, H = High School, C = College and Adult, + = Advanced

THE CITY (1972), 20 minutes, color. Population Field Information Services, George Washington Univ., Dept. of Medical and Public Affairs, Airlie Division, Airlie, VA 22186, (703) 347-1300. \$101 purchase. Film libraries: NAFSA, PRB. H.C

Discusses problems associated with rapid urbanization; focuses on a Latin American City. Available in Spanish and English.

ECOLOGY PRIMER (1972), 18 minutes, color. American Educational Films, 132 Lasky Dr., Beverly Hills, CA 90212, (213) 278-4996. \$305 purchase; \$35 rental from distributor. Film library: ZPG. E,J

Dennis Weaver discusses pollution, animal extinction, and population growth with a group of young people. Film offers advice on constructive actions which students may undertake. Assumes no prior knowledge of ecology; very basic.

EGGS (1970), 10 minutes, color. Films, Inc., 1144 Wilmette Ave., Wilmette, IL 60091. \$155 purchase; \$20 rental from distributor. Film library: ZPG. E+,J,H,C

An animated film about a struggle between the gods of Life and Death. Suggests adoption of fertility planning policy.

FOR YOUR PLEASURE (1972), 4 minutes, color. Mass Media Ministries, Inc., 2116 N. Charles St., Baltimore, MD 21218, (301) 727-3270. \$100 purchase; \$10 rental from distributor. Film libraries: PRB, ZPG. E+,J,H,C

An animated film showing the transformation of a serene rural area into a crowded metropolis. The change takes place within the painting "Hay Wain" by Constable.

LIFE WORLD 2000 (1974), 15 minutes, color, video-cassette. Agency for International Television, Box A, Bloomington, IN 47401, (812) 339-2203. \$110 purchase; \$25 rental from distributor. Film library: PRB. J

Series of twelve 15-minute television programs on such subjects as optimum population level, population trends, migration, pollution, crowding, metropolitan areas, families and babies, attitudes, population policy, and alternative futures. Accompanied by teacher's guide.

MEXICO IN THE YEAR 2000 (1979), 12 minutes (English version), 17 minutes (Spanish version), color. Population Field Information Services, George Washington Univ., Dept. of Medical and Public Affairs, Airlie Division, Airlie, VA 22186, (703) 347-1300. \$69 purchase (English); \$97 purchase (Spanish version). H.C

Produced in Mexico in cooperation with the national government program this film explains the rapid increase in the country's population since 1900 and projects into the future to suggest the difficulties Mexico will have in providing jobs, food, education and housing for population in 2000.

MORE (1972), 3 minutes, color. MacMillan Films, Inc., 34 MacQuesten Parkway South, Mount Vernon, NY 10550, (914) 664-5051. \$55 purchase; \$10 rental from distributor. Film library: ZPG. E,J,H,C

An animated film illustrating what happens as human desires escalate, starting with a baby's demand for more toys and ending with the conclusion that the demand for "more" may result in disaster. A clever cartoon with a thought-provoking message.

NAILS (1972), 4 minutes, color. International Film Bureau, Inc., 332 South Michigan Ave., Chicago, IL 60604, (312) 427-4545. \$75 purchase; \$8 rental from distributor. Film library: PRB. H

An artist's conception of the population explosion. A community of nails—large, small, thick, thin—rapidly propagate, build and spread. When there is no more space, the nails rust and corrode.

PANDORA'S EASY OPEN POP TOP BOX (1967), 16 minutes, color. Film Rental Branch, National Audiovisual Center (NAC) General Services Administration, Washington, D.C. 20409. \$10 rental from distributor. Film library: PRB. H

Compares the problems of city life and the quietness of the country using flashbacks. Focuses on out-migration from farmlands. No narration.

PEOPLE, PEOPLE, PEOPLE (1976), 5 minutes, color. Pyramid Films, Box 1048, Santa Monica, CA 90406. \$100 purchase; \$15 rental from distributor. E,E+

Animation about the cascades of people who flooded into this continent from 17,760 B.C. to the present. Scenes from each age increase in pace until there are people everywhere intermingling, intermarrying, interacting. Illustrates the traditional "melting pot" view of America as well as being good for general immigration lessons.

POPULATION ECOLOGY (1964), 19 minutes, color. Purchase address: Encyclopaedia Britannica Educational Corporation, 425 North Michigan Ave., Chicago, IL 60611. \$255 purchase. Rental address: Encyclopaedia Britannica Education Corporation, 1822 Pickwick Ave., Glenview, IL 60025. \$10 rental from distributor. Film libraries: NAFSA, PRB, ZPG. J,H,C

While an "old" film (a revision is planned), it beautifully explains the population dynamics of various organisms and portrays the fluctuation and limitation of population sizes as environments change. Discusses the human population growth curve and concludes that we, too, are governed by natural laws. Can be updated by using the Population Reference Bureau's World Population Data Sheet, issued annually. (See "Charts" section page 18.)

TILT (1973), 20 minutes, color. CRM/McGraw-Hill Films, Del Mar, CA 92014, (714) 453-5000. \$295 purchase; \$25 rental from distributor. Film Library: PRB. H.C

This animated film is about the many inequalities in the distribution of wealth among the world's people. It was produced by the National Film Board of Canada and the World Bank.

TOMORROW'S CHILDREN (1971), 17 minutes, color. Perennial Education, Inc., 477 Roger Williams, P.O. Box 855, Ravina, Highland Park, IL 60035, (312) 433-1610. \$225

Audiovisual Aids

purchase plus shipping; \$22 rental from distributor plus shipping. Film libraries: NAFSA, PRB, ZPG. J,H,C

Calls for our responding to the physical and psychological needs of future children through reducing per capita consumption and population growth rates. Contains pictures of various family planning devices.

TOWARD OUR THIRD CENTURY (1975), 15 minutes, color.
Film library: ZPG. H+,C

Award-winning film which explores the relationship of population size, consumption and energy in the U.S.

WE (1973), 15 or 30 minutes, color. U.S. Bureau of the Census, National Audio-Visual Center, Washington, D.C. 20409. \$87 purchase—15 minutes; \$169.25 purchase—30 minutes. Modern Talking Picture Service, 2000 L St., N.W., Washington, D.C. 20036. Free rental from distributor. J,H,C

A portrait of America as reflected in the 1970 Census. Visually presents the key findings of the census—the growth, movement and characteristics of the U.S. population between 1960 and 1970.

WORLD POPULATION (1972), 3 minutes, color. Perspective Films, 369 West Erie St., Chicago, IL 60610, (312) 977-4100 or (800) 621-2131 (outside Illinois). \$69 purchase; \$10 rental from distributor. Film libraries: NAFSA, PRB, ZPG. E+,J,H,C

A graphic presentation of world population growth and distribution from 1 A.D. to the present, and projected to 2000 A.D. The most popular population film ever.

300,000,000 (1974), 10 minutes, color. International Labor Organization, 1750 New York Ave., N.W., Washington, D.C. 20006, (202) 634-6335. Free rental from distributor. Film library: PRB. J,H,C

Animated cartoon film produced in the Netherlands; deals with the relation of employment to population and consumption. Accompanied by comic book entitled *300,000,000*.

Medium Length Films (21 to 40 minutes)

ALONE IN THE MIDST OF THE LAND (1970), 27 minutes, color. Film library: ZPG. H,C

We observe the lone survivor of deadly worldwide pollution. Wearing a protective suit he views a film made in 1970 warning of disasters to come. The message is that we are risking irreversible disturbance of the balance of nature.

BEYOND THE NEXT HARVEST (1975), 27 minutes, color. Mass Media Ministries, Inc., 2116 North Charles St., Baltimore, MD 21218. \$300 purchase; \$25 rental from distributor. J,H,C

Documents the growing world food crisis from a time of surplus, only five years ago, to the present global situation. Visual statements of world hunger and interviews with 1974 World Food Conference delegates.

ZPG = Zero Population Growth, PRB = Population Reference Bureau, NAFSA = National Association for Foreign Student Affairs. For addresses, see page 19. E = Elementary, J = Junior High, H = High School, C = College and Adult, + = Advanced

LIMITS TO GROWTH (1973), 30 minutes, color. Film library: PRB. H,C

Explains exponential population growth and discusses its relationship to agricultural production, natural resources, industry, and pollution. A visual version of the book by the same name. (See "Materials For Students, Teachers and Others" page 4.)

NO ROOM FOR WILDERNESS (1968), 26 minutes, color. Association Films, 600 Grand Ave., Ridgely, NJ 07657, (201) 943-8200. \$350 purchase; \$9.50 rental from distributor. Film library: ZPG. J,H,C

Depicts the transition of once lush South African wilderness into civilization, illustrating the interrelationships in nature of which humankind is a part. Concludes that we are subject to the same natural laws that govern animal populations.

PROMISE CITY (1971), 30 minutes, color. Audio-Visual Center, Indiana University, Bloomington, IN 47401. \$315 purchase; \$12.50 rental from distributor. J,H,C

This study of migration and depopulation shows the slow death of an Iowa farming community, illustrating the small farmer's survival difficulties in the United States today and consequent migration of the young farm people to more prosperous urban areas.

SORRY, NO VACANCY (1973), 27 minutes, color. Malibu Films, Inc., P.O. Box 428, Malibu, CA 90265, (213) 456-2859. \$380 purchase; \$38 rental from distributor. Film libraries: NAFSA, PRB, ZPG. J,H,C

Illustrates the conflict between population growth and our consumption of the earth's resources. Discusses the interrelationship between our living standards and current difficulties, such as food and energy shortages.

TRAGEDY OF THE COMMONS (1971), 23 minutes, color. BFA Educational Media, 2211 Michigan Ave., P.O. Box 1795, Santa Monica, CA 90406, (213) 829-2901. \$310 purchase; \$22 rental from distributor. Film libraries: PRB. H,C

Designed to provoke discussion of the various issues involved in the current dilemma of rapidly diminishing resources, growing population, and environmental stress on a finite planet. Comes with a study guide.

Long Films (41 to 70 minutes)

THE AMERICAN WILDERNESS (1971), 53 minutes, color. Films Incorporated, 1144 Wilmette Ave., Wilmette, IL 60091, (312) 256-3200. \$550 purchase; \$40 rental from distributor. H,C

The film takes the audience on a cross-country tour of several national parks. It shows how scenery is being marred by development and the lumber industry. Overcrowding, noise, litter and forest fires are the contributions of many vacationers. Views on the preservation of wilderness and

trees are presented by representatives of the U.S. Forest Service, Sierra Club and others. The film impresses upon the viewer the need to preserve the wilderness and presents population growth as a major threat to nature because people are the biggest users and destroyers.

MULTIPLY AND SUBDUCE THE EARTH (1967), 67 minutes, color. Audio-Visual Center, Indiana University, Bloomington, IN 47401. \$450 purchase; \$18.50 rental from distributor. H,C

Emphasizes land as a precious resource and urges ecologically sound use of it. Criticizes economic gain as the basis for land-use planning, using real case studies. Over 10 years old, but still relevant today.

POPULATION, BOOM OR DOOM? (1973), 60 minutes, color. Film library: PRB. H,C

A study of 4 issues from the Report of the Commission of Population Growth and the American Future: population numbers, current and projected; sex education; contraception and abortion; immigration. Shown on ABC television in January 1973.

POPULATION GROWTH AND THE AMERICAN FUTURE (1972), 60 minutes, color. Film libraries: NAFSA, PRB, ZPG. Viewer's guide to film available from ZPG. J,H,C

The official film version of the U.S. Commission's report, *Population and the American Future*. Presents the findings and recommendations of the Commission. Comes in two thirty-minute sections which can be shown separately. Sex ed and abortion are mentioned only in Part II.

SAY GOODBYE (1972), 50 minutes, color. Films, Inc., 1144 Wilmette Ave., Wilmette, IL 60091. \$575 purchase; \$40 rental from distributor. Film libraries: PRB, ZPG. E, J,H,C

A farewell to wildlife species which have become or are expected to become extinct. Contains footage of the shooting of several animals, which may be disturbing to some students.

TIME OF MAN (1970), 50 minutes, color. BFA Educational Media, 2211 Michigan Ave., P.O. Box 1975, Santa Monica, CA 90406. \$475 purchase; \$50 rental from distributor. Film libraries: NAFSA, PRB. J,H,C

Examines primitive tribes interaction with the environment by studying current groups in New Guinea and Africa. Discusses the potential for contemporary man to accommodate population growth and technological change within the ecosystem on which he depends for survival.

TOMORROW IS MAYBE (1972), 60 minutes, color. Audio-Visual Center, Indiana University, Bloomington, IN 47401. \$550 purchase; \$20.50 rental from distributor. J,H,C

Beautiful natural scenes are contrasted with pictures of the "American Way of Life", the programmed world. Narration is punctuated with quotes from W. H. Auden, Rene Dubos and others. No solutions are proposed but insight is

given into modern man's relationship with his environment. Overpopulation is portrayed as the most pressing problem.

TOMORROW'S WORLD: FEEDING THE BILLIONS (1968), 54 minutes, color. Contemporary Films/MacGraw Hill, 1221 Avenue of the Americas, New York, NY 10020, (212) 997-2183 (rental) or (212) 997-3276 (purchase). \$695 purchase; \$30 rental from distributor. H

Narrated by Frank McGee. Portrays the history of population growth and gravity of present trends in terms of widespread food shortages. Focuses on the various plans to farm the tropics, deserts, and oceans. Ask students to research what has happened in the years since the film was issued.

WHO SHALL FEED THIS WORLD (1975), 47 minutes, color. Films, Inc., 1144 Wilmette Ave., Wilmette, IL 60091. \$550 purchase; \$38 rental from distributor. H,C

Intensely human film which contrasts the lives of two farm families—one in North Dakota, the other in India—to bring reality to statistics on the world food shortage. Investigates the tremendous political implications of overconsumption and overpopulation.

Filmstrips

ECOLOGY: UNDERSTANDING THE CRISES (1972), 9 minutes each, color/sound filmstrip. Encyclopaedia Britannica Educational Corporation, 425 North Michigan Ave., Chicago, IL 60611. \$86.95 purchase. H

Set of six filmstrips and accompanying tape cassettes dealing with the present ecological situation and man's role in the ecosystem.

FEEDING THE BILLIONS (1976), 16 minutes each, color/sound filmstrips, records or cassettes, extensive teacher's manual. MacMillan Library Services, 251B Brown St., Riverside, NJ 08075. \$95 purchase. E+, J,H,C

Relates current world food shortages to population dynamics as well as to production techniques, history of agriculture, health, and other relevant topics.

MUST THE WORLD GO HUNGRY? (1973), color, filmstrip and tape cassette. Current Affairs Films, Division Key Productions, Inc., P.O. Box 398, 24 Danbury Rd., Wilton, CT 06897. \$24 purchase. J,H,C

The filmstrip examines the task of feeding the world's rapidly rising population and evaluates the prospects for finding new sources of foods and foodstuffs, and assesses the relative merits of the zero population growth concept in light of religious beliefs, humanitarian considerations and traditional cultures. Discussion guide accompanies filmstrip.

THE PEOPLE PROBLEM (1977), 2 color/sound filmstrips, tape cassettes and discussion guide. Current Affairs Films, Division Key Productions, Inc., P.O. Box 398, 24 Danbury Rd., Wilton, CT 06897. \$48 purchase. H

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Part I: "Population Explosion in Latin America"—pro-

Audiovisual Aids

vides a case study of a population explosion, causes and consequences in one of the world's developing areas.

Part II: "Urban Expansion in Latin America"—provides a critical analysis of the wide-scale urban growth that is taking place throughout the world as millions of rural migrants continue their flight to cities already overcrowded.

POPULATION DEBATE (1975), 12-13 minutes each, 4 color/sound filmstrips, records or cassettes. Sunburst Communications, 41 Washington Ave., Pleasantville, NY 10572. \$100.80 purchase. J,H

Examines demographic variables and consequences of population change. Raises social and economic questions related to food and population. Produced in association with the Population Institute. Teacher's manual provided.

POPULATION DYNAMICS (1974), 45 minutes, 3 color/sound filmstrips, records or cassettes. Education Materials, Carolina Population Center, University Square—300A, Chapel Hill, NC 27514. \$80 purchase for complete series; also available individually (price for each part indicated below). J,H

Part I: The Facts About Population Ecology (\$22)

Part II: The Facts About Human Reproduction (\$20)

Part III: The Facts About Birth Control (\$20)—package contains demonstration contraceptives.

Accompanied by student and teacher manuals. Additional student manuals available for 95¢ each.

POPULATION POLICIES AND WOMEN: AN INDIVIDUAL AND GLOBAL CONCERN (1975), color, 9-frame filmstrip. Board of Church and Society, United Methodist Church, 100 Maryland Ave., N.E., Washington, D.C. 20002. \$1.00 purchase. J,H,C

Discusses the interrelationship between the status of women and population change. Comes with script, study guide, and discussion questions.

POPULATION: THE PEOPLE PROBLEM (1975), 12 minutes each, 2 color/sound filmstrips, records or tape cassettes. Multi-Media Productions, Inc., P.O. Box 5097, Stanford, CA 94305. \$16.95 purchase. Film library: PRB. J,H,C

Concentrates on demographic variables and trends, including clear explanations of statistical terms. Teacher's manual includes discussion questions, vocabulary, and recommended readings.

POPULATION: TOO MANY PEOPLE, NOT ENOUGH FOOD (1975), 30 minutes total, 2 color filmstrips, records or tape cassettes. Prentice Hall Media, ServCode KB, 150 White Plains Rd., Tarrytown, NY 10591. \$50 Purchase. J,H

Depicts the effects of recent population growth and its implications for the future. Discusses the choices which society faces in attempting to feed a growing population.

RURAL INDIA: MAY YOU HAVE A THOUSAND SONS (1973), 20 minutes, color/sound filmstrip, reel tape recording. Jerry L. Brown, 2511 Deep Well Court, Route 3,

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Bloomington, IN 47401. \$10 purchase. J+,H

Examines the reasons behind the tradition of large families in India, including a discussion of the status of women in society. Lesson plan for the film strip also available (see *Population Inquiries: U.S. & World Dynamics* in "Materials for Students, Teachers and Others", page 6).

SYSTEMS MAN (1973), 20 minutes, color/sound filmstrip, reel tape recording. Jerry L. Brown, 2511 Deep Well Court, Route 3, Bloomington, IN 47401. \$10 purchase. J+,H

Cartoon characters, Systems Man and the Superweird Population Fiend, debate how to handle the problems of population and pollution. Lesson plan for the film strip also available (see *Population Inquiries: U.S. & World Dynamics* in "Materials for Students, Teachers and Others", page 6).

Slides and Slide/Tape Programs

ECO-KIT (1976), slides/cassettes. E-P Education Services, c/o Aces, 800 Dixwell Ave., New Haven, CT 06511. \$30 purchase. E+,J,H

An introduction to 6 areas of intense environmental concern; designed for independent study using cassettes, slides, guidesheets, and bibliographies.

INVESTIGATIONS IN LIFE SCIENCE: MAN AND NATURE (1975), 4 color slide units, each consisting of roughly 35 daylight slides on the environment; script, but no audio. Crystal Productions, 107 Pacific Ave., Aspen, CO 81611. \$147 purchase (for complete set). E+,J,H

Unit I—Population and Ecosystems—deals with human population dynamics; variety among living things; concept of a finite earth. \$41

Unit IV—Man and the Environment—discusses interrelationships of resources and human actions; invites students to consider range of choices which societies face. \$40.

Units come with extensive teacher's manual. Developed by the Biological Sciences Curriculum Study.

ISSUES IN POPULATION: WHERE THE EXPERTS DISAGREE (1971), 28 minutes, b/w, slides/script/cassette. Film Library, Cornell University, 55 Judd Falls Rd., Ithaca, NY 14853. \$45 purchase; \$6 rental from distributor. J,H

Covers a variety of issues; population and food, population and the environment, and population growth and policies in the U.S. Differing viewpoints are given by leading experts such as Bernard Berelson, Paul Ehrlich, and Norman Ryder, to show that controversies exist among experts and that there are no easy answers.

LAND USE DECISION-MAKING KIT—"Planning for People"—a self-instructional module of inquiry lessons, maps, slides and cassettes. E-P Education Services, Inc., c/o ACES, 800 Dixwell Ave., New Haven, CT 06511. \$28 purchase (for one unit).

POPULATION EDUCATION AND THE SCHOOL CURRICULUM, slide/cassette program. Film Library: ZPG.

Intended for an interdisciplinary team of educators; shows how population topics are appropriate for a variety of subjects.

POPULATION EDUCATION MULTI-MEDIA KIT (1978). The Family Planning Assn. of Hong Kong, 152 Hennessy Rd., Hong Kong. \$100.00 U.S. purchase. H,C

A kit of teaching aids designed for social studies teachers. Contains slides, charts, cassette tapes, publications and a manual. Focuses on the Hong Kong situation, but could be used as model for development of local kit. In English and Chinese.

POPULATION REFERENCE BUREAU (1975-present). Color slides, 35 mm. PRB, 1337 Connecticut Ave., N.W., Washington, D.C. 20036. 50¢ each purchase. J,H,C

Prepared from the maps, tables and graphs presented in *Population Bulletin* series (titles listed on page 12) and from the Chart Series I, II, III, and IV (titles listed on page 17).

SCIENCE AND ETHICS OF POPULATION CONTROL: AN OVERBURDENED EARTH (1975). 36 minutes total, sound/slide series, records and tape cassettes. Center for Humanities, Inc., Two Holland Ave., White Plains, NY 10603. \$139.50 purchase. Film libraries: PRB, ZPG, H,C

Discusses the biological causes of human population change, its implications, and the choices which society faces. Includes a comprehensive teacher's manual. Other excellent slide/tape shows available are:

BIOLOGICAL CATASTROPHES: WHEN NATURE BECOMES UNBALANCED

CRITICAL ISSUES IN SCIENCE AND SOCIETY: A WORLD TO FEED.

CRITICAL ISSUES IN SCIENCE AND SOCIETY: THE GREAT ENERGY DEBATE

MAN AND ENVIRONMENT: IN HARMONY AND IN CONFLICT

Each set consists of two separate but closely related parts lasting roughly 15 minutes each.

Tape Cassettes

"IS POPULATION OUTRUNNING RESOURCES?" Richard L. Strout vs. Jacqueline Kasan. Greenhaven Press, 577 Shoreview Park Ave., St. Paul, MN 55112. \$4.98 plus 5% shipping/handling. H,C

Part of the *Opposing Viewpoints* series by Greenhaven Press. A debate over the dangers of the population problem. Richard L. Strout, a Washington correspondent for the *Christian Science Monitor*, argues that food and resources cannot keep up with population growth. Jacqueline Kasan, an economics professor at Humboldt State University, suggests that the population-resource problem is more myth than fact.

"SHOULD ILLEGAL ALIENS BE GRANTED AMNESTY?" Herman Badillo vs. Sen. Richard Schweiker. Greenhaven Press, 577 Shoreview Park Ave., St. Paul, MN 55112. \$4.98 plus 5% shipping/handling. H,C

A debate over proposed amnesty for illegal aliens. Herman Badillo, Deputy Mayor of New York City, argues that the illegal residents in the U.S. have been made scapegoats for our economic ills, but are really important producers and

should be allowed permanent residence. Sen. Schweiker of Pennsylvania contends that amnesty would reward illegality and take jobs away from citizens.

Computer Systems

Inexpensive, lightweight computer systems, ideal for classroom or school use are now available. The system weighs less than 20 pounds and is plugged into an ordinary wall socket for use with any color or black and white TV. They use programmed cartridges, such as the population programs developed at the University of Illinois (see page 17), or can be programmed by the owner. The cost of a system starts at \$500. Two examples: Apple Computer, 10260 Bandy Dr., Cupertino, CA 95014, (800) 538-9696; and Video Brain, Lector-Media Ltd, P.O. Box 1770 sa, Philadelphia, PA 19105, (800) 523-2906.

"Environment and Population Films: Critical Viewing and Thinking" by Elaine Murphy

This discussion is intended as a guideline for viewing films on controversial issues, but it can be adapted to examine books, articles, slide/tape programs, presentations, or even collages, photos and cartoons.

1. Does the title of this film reveal a certain viewpoint? What is the viewpoint?
2. What are the chief messages of this film?
3. Are the values of the filmmaker clearly expressed?
4. Does this film express your own values? How, if at all, do your values differ? Why? Does it express values dominant in the national culture?
5. Are there other values contained in the film that are not overtly presented and dealt with?
6. Are other points of view dealt with? Fairly? Are these other viewpoints presented by a representative of that viewpoint? By direct quotations? By a reference or summary alone?
7. Do you think members of some subcultures in this country would agree or disagree with the values expressed? (eg. Blacks, Chicanos, Indians, women, religious groups, rural or urban residents, the very wealthy or very poor, etc.)
8. Do you think citizens of other countries would espouse the film's values? How might a citizen of a developing country differ from a citizen of a developed country in perceiving or assessing the problem presented? Does the film present an "elitist" view? Would problem perception or problem solving vary according to political philosophy?
9. What are the assumptions underlying the film? Do facts support the assumptions? Are the "trade-offs" for suggested solutions clear? What are they?
10. Does the severity of the situation alter our ordinary set of values? For example, if the biologic and social problems presented in the film are presently not extreme and not expected to be critical for a long time (decades, centuries, millennia), do we judge solutions by a different moral code than if disaster were imminent? If one were convinced that the human species and perhaps all other life on this planet were in imminent danger of extinction due to the trends presented, would measures previously thought unacceptable become acceptable? What solutions would be unacceptable in spite of the enormity of the problem or crisis? Given that the answer to that question might vary among individuals, groups and nations, how can global problems approach solution?

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- (av) film, filmstrip, slide/tape program, slides, tape cassette
 (c) chart
 (g) game
 (i) international
 (t) theory and background

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